

## SUMMARY CATALOGUE

Spain:  
[www.kps-soluciones.es](http://www.kps-soluciones.es)  
[info@kps-soluciones.es](mailto:info@kps-soluciones.es)

Portugal:  
[www.kps-euman.com](http://www.kps-euman.com)  
[info@kps-euman.com](mailto:info@kps-euman.com)

Mexico:  
[www.kps-soluciones.com.mx](http://www.kps-soluciones.com.mx)  
[info@kps-soluciones.com.mx](mailto:info@kps-soluciones.com.mx)

**[www.kps-euman.com](http://www.kps-euman.com)**  
**[info@kps-euman.com](mailto:info@kps-euman.com)**

**ENERGY SAVING  
POWER FACTOR CORRECTION  
MEASURING INSTRUMENTS  
LV PROTECTION COMPONENTS  
ENCLOSURES  
SIGNALLING**

## ENERGY SAVING



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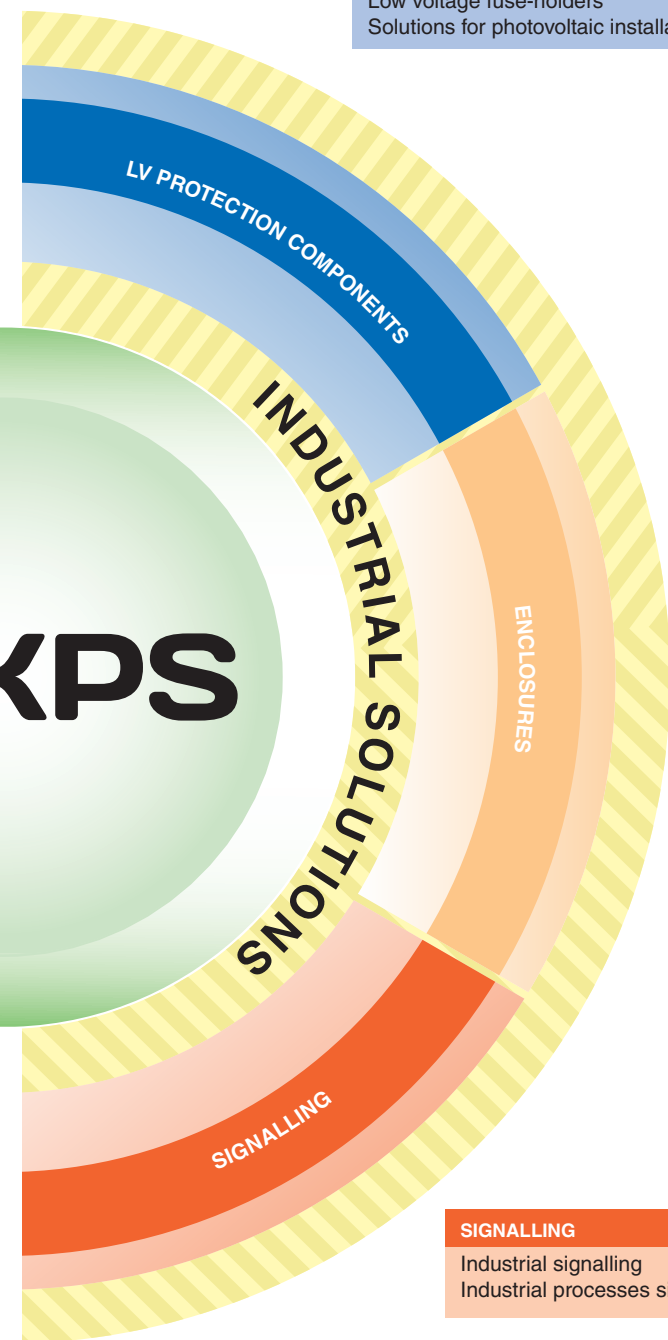


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## ENERGY SAVING



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## ENERGY SAVING

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ANALOG AND DIGITAL TIME SWITCHES  
STAIRCASE TIMERS  
PLUG-IN TIME SWITCHES  
TWILIGHT SWITCHES  
PHOTOCELLS  
THERMOSTATS  
HOURS METERS  
ENERGY METERS FOR DIN RAIL  
DOORCHIMES  
MOVEMENT AND PRESENCE DETECTORS  
SENSOR LIGHTS  
SAFETY DETECTORS

# KPS ENERGY SAVING



## KPS ENERGY SAVING

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**KPS** presents its **new range of solutions for energy saving**, developed to bring to the market the best product range designed to increase the energy efficiency levels in all kinds of facilities, and designed always on the basis of the following concepts:

- **Quality, reliability and durability**
- **Ease of installation and setup**

Our new range of products includes:

- **Analog and digital time switches**
  - **Staircase timers**
  - **Plug-in time switches**
  - **Twilight switches**
  - **Photocells**
  - **Thermostats**
  - **Hours meters**
  - **Energy meters for DIN rail**
  - **Doorchimes**
  - **Movement and presence detectors**
  - **Sensor lights**
  - **Safety detectors**
- 
- ✓ **European made, high quality products at competitive prices**
  - ✓ **State-of-the-art technologies such as Zero Cross Switching that increase the service life of our products**
  - ✓ **Product endorsed and guaranteed by KPS**

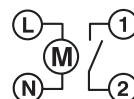
# ANALOG AND DIGITAL TIME SWITCHES

- ✓ Analog models for simple applications and digital ones for more complex applications, there is even the option of using a memory stick for **programming serially electrical panels**.
- ✓ It is the perfect product for **programming any type of load**, lighting, pump, electrically operated valve, etc.
- ✓ State-of-the-art technologies such as **Zero Cross Switching** that increase the service life of our products.
- ✓ **Manufactured in Europe** with the highest quality standards.



## Analog time switches 1 module

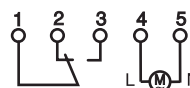
- Power supply: 230VAC, 50-60 Hz. Contact: 16A / 250VAC. 1 DIN rail module
- Version with synchronous motor without power running reserve
- Version with crystal oscillator with power running reserve of 100 h
- Daily program. 15 min switching. Manual ON / AUTO switch
- Sealed lid
- Normally open contact without potential
- According to EN 60730-1:2011, EN 60730-2-7:2010+AC:2011



Article	Code	Program	Minimum switching	Running reserve	Supply voltage
KPS-IH-DIN1SR15	350200117	Daily	15 minutes	-	230VAC, 50-60Hz
KPS-IH-DIN1CR15	350200118	Daily	15 minutes	100 h	230VAC, 50-60Hz

## Analog time switches 2 modules

- Power supply: 230VAC, 50-60 Hz. Contact: 16A / 250VAC. 2 DIN rail modules
- Version with synchronous motor without running reserve
- Version with crystal oscillator with running reserve of 150 h
- Daily program. 30 min switching
- Manual ON / AUTO switch. Sealed lid
- No potential changeover contact
- According to EN 60730-1:2011, EN 60730-2-7:2010+AC:2011



Article	Code	Program	Minimum switching	Running reserve	Supply voltage
KPS-IH-DIN2SR30	350200119	Daily	30 minutes	-	230VAC, 50-60Hz
KPS-IH-DIN2CR30	350200120	Daily	30 minutes	150 h	230VAC, 50-60Hz

## Digital time switch 2 modules

- Power supply: 24-264VAC/DC, 50-60 Hz
- No potential changeover contact (16A/250VAC)
- LCD backlight display
- 2 DIN rail modules
- Number of channels:
  - KPS-IH-DIGI1EASY: 1 channel
  - KPS-IH-DIGI2EASY: 2 channels
- Number of programs:
  - KPS-IH-DIGI1EASY: 52 programs
  - KPS-IH-DIGI2EASY: 90 programs
- With power reserve of 10 years
- Weekly program
- Operating modes: manual, automatic, holiday
- Free weekday block formation
- Switching from 1 sec for doorbell control
- Manual ON/OFF/AUTO/OVERRIDE control
- Automatic summer/Winter time changeover
- According to EN 60730-1:2011, EN 60730-2-7:2010+AC:2011

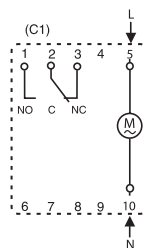


Article	Code	Channels	Minimum switching	Power reserve	Supply voltage
KPS-IH-DIGI1EASY	350200164	1	1 second	10 years	24-264VAC/DC, 50-60Hz
KPS-IH-DIGI2EASY	350200165	2	1 second	10 years	24-264VAC/DC, 50-60Hz

# ANALOG AND DIGITAL TIME SWITCHES

## Digital time switches 2 modules. 1 output channel

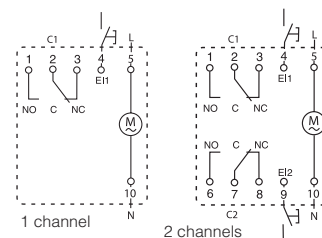
- Power supply: 230VAC, 50-60 Hz. Contact: 16A / 250VAC
- LCD backlit display
- 2 DIN rail modules. 20 ON/OFF programs
- With rechargeable running reserve of 15 h. Weekly program
- Formation of blocks of days of the week
- Switching from 1 sec for doorbell control. Automatic summer/winter time changeover
- Manual ON/OFF/AUTO switch. Sealed lid
- No potential changeover contact
- According to EN 60730-1:2011, EN 60730-2-7:2010+AC:2011



Article	Code	Program	Minimum switching	Running reserve	Supply voltage
KPS-IH-DIG11	350200121	Weekly	1 second	Rechargeable of 15 days	230VAC, 50-60Hz

## Digital time switches with programming stick 2 modules

- Power supply: 230VAC, 50-60 Hz. 2 DIN rail modules
- 1/2 switched contact(s) of 16A / 250VAC with Zero Cross Switching
- Optional programming stick (KPS-DIGISTICK)
- LCD backlit display. Programming via text menus.
- 64 ON/OFF programs.
- With running reserve of 6 years
- Weekly and holiday program.
- Switching from 1 sec for doorbell control
- External input for control via push buttons and switches
- Cycle function. Automatic summer/winter time changeover
- Manual ON/OFF/AUTO switch. Sealed lid
- Random program for presence simulation
- Hour meter function. No potential changeover contact
- According to EN 60730-1:2011, EN 60730-2-7:2010+AC:2011



Article	Code	Programme	Minimum switching	Running reserve	Output contacts	Supply voltage
KPS-IH-DIG1MEMORY	350200122	Weekly / Holidays	1 second	6 years	(1)16A/250VAC	230VAC, 50-60Hz
KPS-IH-DIG2MEMORY	350200123	Weekly / Holidays	1 second	6 years	(2)16A/250VAC	230VAC, 50-60Hz

## Programming stick for digital time switches

- It allows for the transferring of programs, from the programming stick to the time switch and vice versa
- Once the stick has been inserted, it overwrites the program regardless of the existing program in the time switch
- The perfect solution when you need several time switches to have the same program



Article	Code	Features
KPS-DIGISTICK	350200124	Valid for models: KPS-IH-DIG1MEMORY, KPS-IH-DIG2MEMORY, KPS-IH-DIG1 ASTRO, KPS-IH-DIG2 ASTRO



## Astronomical time switches

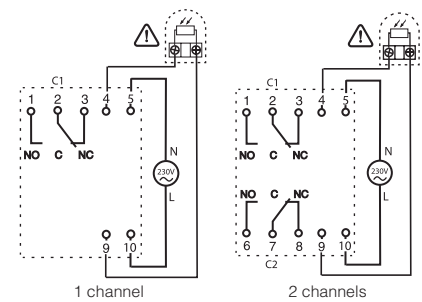
- Power supply: 230VAC, 50-60 Hz
- 1/2 switched contact(s) of 16A/250VAC with Zero Cross Switching
- Optional programming stick (KPS-DIGISTICK). LCD backlit display
- Front accessible CR2032 battery, replaceable without having to remove the power supply.
- With running reserve of 6 years. Weekly and holiday program.
- Combines astronomical switching with fixed hour and twilight switching (optional twilight sensor KPS-IH-DIGIASTRO-SONDA)
- Insertion of geographical localization by longitude/ latitude
- Manual correction of ON/OFF switching
- 45 ON/OFF programs. Automatic summer/winter changeover contact
- Manual ON/OFF/AUTO switch. Sealed lid
- No potential changeover contact
- According to EN 60730-1:2011, EN 60730-2-7:2010+AC:2011



ZCS TECHNOLOGY  
Zero Cross Switching

Article	Code	Running reserve	Output contacts	Supply voltage
KPS-IH-DIGI1ASTRO	350200132	6 years	(1)16A/250VAC	230VAC, 50-60Hz
KPS-IH-DIGI2ASTRO	350200133	6 years	(2)16A/250VAC	230VAC, 50-60Hz

Article	Code	Description
KPS-IH-DIGIASTRO-SONDA	350200153	Optional twilight sensor for astronomical time switches



### COMBINATION OF DIFFERENT TYPES OF SWITCHING

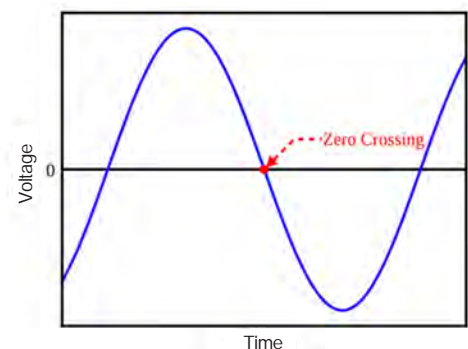
- Astronomical
- Fixed time
- Twilight

## Zero Cross Switching

*It extends the life of the product up to a 30%*

This technology features a relay which **cuts off the lamp current** when the AC voltage crosses zero. Thereby minimizing the current flowing through the relay, avoiding the wear and tear that it produces and thus **lengthening the maximum life** of both the relay and the time switch.

ZCS TECHNOLOGY  
Zero Cross Switching



# ANALOG AND DIGITAL TIME SWITCHES

## Panel mounting analog time switches

- Power supply: 230VAC, 50-60 Hz. Contact: 16A / 250VAC
- Frontal dimensions: 76 x 76 mm. Mounting hole: 67 x 67 or 69 x 69 mm
- Version with synchronous motor without running reserve
- Version with crystal oscillator with running reserve of 72 h
- Daily program. 15 min switching.
- Manual ON/OFF/AUTO switch
- Clock face for easy time adjustment
- Transparent plastic cover
- According to EN 60730-1:2011, EN 60730-2-7:2010+AC:2011



Article	Code	Program	Minimum switching	Running reserve	Supply voltage
KPS-IH-76SR	350200129	Daily	15 minutes	-	230VAC, 50-60Hz
KPS-IH-76CR	350200130	Daily	15 minutes	72 hours	230VAC, 50-60Hz



## Industrial analog modules

- Power supply: 230VAC, 50-60 Hz
- Contact: 16A / 250VAC
- Frontal dimensions: 60 x 60 mm
- Version with synchronous motor without running reserve
- Version with crystal oscillator with running reserve of 72 h
- Daily program. 15 min switching
- Manual ON / OFF / AUTO switch
- Clock face for easy time adjustment
- No potential changeover contact
- According to EN 60730-1:2011, EN 60730-2-7:2010+AC:2011



Article	Code	Program	Minimum switching	Running reserve	Supply voltage
KPS-IH-FMSR	350200150	Daily	15 minutes	-	230VAC, 50-60Hz
KPS-IH-FMCR	350200131	Daily	15 minutes	72 hours	230VAC, 50-60Hz



# ANALOG AND DIGITAL TIME SWITCHES

## Quick selection chart

FUNCTIONS											
	KPS-IH-DIN1SR15 ANALOG TIME SWITCH	KPS-IH-DIN1CR15 ANALOG TIME SWITCH	KPS-IH-DIN2SR30 ANALOG TIME SWITCH	KPS-IH-DIN2CR30 ANALOG TIME SWITCH	KPS-IH-DIGI1EASY DIGITAL TIME SWITCH	KPS-IH-DIGI2EASY DIGITAL TIME SWITCH	KPS-IH-DIGI1 DIGITAL TIME SWITCH	KPS-IH-DIGI1 MEMORY DIG. TIM. SWIT.	KPS-IH-DIGI2 MEMORY DIG. TIM. SWIT.	KPS-IH-DIGI2ASTRO ASTRON. TIM. SWIT.	KPS-IH-DIGI2ASTRO ASTRON. TIM. SWIT.
Code	350200117	350200118	350200119	350200120	350200164	350200165	350200121	350200122	350200123	350200132	350200133
Installation	DIN rail	DIN rail	DIN rail	DIN rail	DIN rail	DIN rail	DIN rail	DIN rail	DIN rail	DIN rail	DIN rail
Supply voltage	230VAC, 50/60Hz	230VAC, 50/60Hz	230VAC, 50/60Hz	230VAC, 50/60Hz	24-260 VAC/DC, 50/60 Hz	24-260 VAC/DC, 50/60 Hz	230VAC, 50/60Hz	230VAC, 50/60Hz	230VAC, 50/60Hz	230VAC, 50/60Hz	230VAC, 50/60Hz
Dimensions	1 DIN module	1 DIN module	2 DIN modules	2 DIN modules	2 DIN modules	2 DIN modules	2 DIN modules	2 DIN modules	2 DIN modules	2 DIN modules	2 DIN modules
Technology	Analog	Analog	Analog	Analog	Digital	Digital	Digital	Digital	Digital	Digital	Digital
Running reserve	-	100h rechargeable	-	150h rechargeable	10 years	10 years	15 days rechargeable	6 years	6 years	6 years, batterie interchangeable	6 years, batterie interchangeable
Program	Daily	Daily	Daily	Daily	Weekly	Weekly	Weekly	Weekly and annual	Weekly and annual	Weekly and annual	Weekly and annual
Minimum switching	15 minutes	15 minutes	30 minutes	30 minutes	1 sec	1 sec	1 sec	1 sec	1 sec	1 sec	1 sec
Memory	-	-	-	-	-	-	20 maneuvers ON/OFF	64 maneuvers ON/OFF	64 maneuvers ON/OFF	64 maneuvers ON/OFF, ASTRO, LUX	64 maneuvers ON/OFF, ASTRO, LUX
Programming stick	-	-	-	-	-	-	-	√	√	√	√
Manual switch	ON/AUTO	ON/AUTO	ON/AUTO	ON/AUTO	ON/OFF/AUTO/OVERRIDE	ON/OFF/AUTO/OVERRIDE	ON/OFF/AUTO	ON/OFF/AUTO	ON/OFF/AUTO	ON/OFF/AUTO	ON/OFF/AUTO
Channels	1	1	1	1	1	2	1	1	2	1	2
Contact capacity	16A/250VAC	16A/250VAC	16A/250VAC	16A/250VAC	-	-	16A/250VAC	16A/250VAC	16A/250VAC	16A/250VAC	16A/250VAC
Relay	Normally open	Normally open	Switched	Switched	-	-	Switched	Switched with zero-pass control	Switched with zero-pass control	Switched with zero-pass control	Switched with zero-pass control

FUNCTIONS				
	KPS-IH-76SR ANALOG TIME SWITCH	KPS-IH-76CR ANALOG TIME SWITCH	KPS-IH-FMSR INDUSTRIAL MODULE	KPS-IH-FMCR INDUSTRIAL MODULE
Code	350200129	350200130	350200150	350200131
Installation	Panel	Panel	Integrated	Integrated
Supply voltage	230VAC, 50/60Hz	230VAC, 50/60Hz	230VAC, 50/60Hz	230VAC, 50/60Hz
Dimensions	76 x 76	76 x 76	60 x 60	60 x 60
Technology	Analogique	Analogique	Analogique	Analogique
Running reserve	-	72 heures	-	72 heures
Program	Quotidien	Quotidien	Quotidien	Quotidien
Minimum switching	15 minutes	15 minutes	15 minutes	15 minutes
Manual switch	ON/OFF/AUTO	ON/OFF/AUTO	ON/OFF/AUTO	ON/OFF/AUTO
Channels	1	1	1	1
Contact capacity	16A/250VAC	16A/250VAC	16A/250VAC	16A/250VAC
Relay	conmutado	conmutado	conmutado	conmutado

# STAIRCASE TIMERS

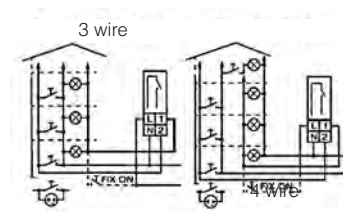
- ✓ Versions with electromechanical technology or electronic technology
- ✓ **Suitable for LED lamps**, 3-wire and 4-wire connections
- ✓ Suitable for neon push buttons up to 150mA
- ✓ Switch for manual override

## Electromechanical staircase timer

- Power supply: 230VAC/50/60 Hz. 1 contact of 16A/250VAC. 1 DIN rail module
- Bottom terminals that make it compatible with other models
- 1 min to 7 min timing. Resettable
- Suitable for 3 and 4 wires using the side selector
- Manual ON/AUTO switch. Suitable for neon push buttons up to 50mA.
- Contact capacity:
  - Incandescence: 2000W / Fluorescence: 1000VA / Energy saving and LED: 400VA
- According to EN 60669-1:1999+A1:2002+A2:2008, EN 60669-2-3:2006



Article	Code	Operation	Time delay	Contact capacity
KPS-TEMPO7MEC	350200144	Electromechanical	1 min - 7 min	Incandescence: 2000W Fluorescence: 1000VA Energy saving and LED: 400VA

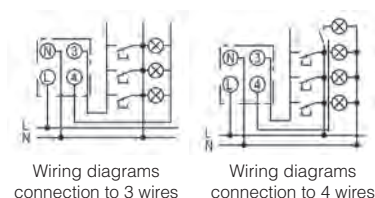


## Electronic staircase timer

- Power supply: 230VAC/50/60 Hz. 1 contact of 16A/250VAC. 1 DIN rail module
- 30 sec to 20 min timing. Resettable
- Suitable for operating with 3 and 4 wires, automatic recognition
- Manual ON / AUTO switch. Suitable for neon push buttons up to 150mA.
- Contact capacity:
  - Incandescence: 2 000W / Fluorescence: 1 000VA / Energy saving and LED: 400VA
- According to EN60669-1:1999+A1:2002+A2:2008, EN 60669-2-3:2006



Article	Code	Operation	Time delay	Contact capacity
KPS-TEMPO10ELEC	350200163	Electronic	30 sec - 10 min	Incandescence: 2300W Fluorescence: 1000VA Energy saving and LED: 400VA
KPS-TEMPO20ELEC	350200135	Electronic	30 sec - 20 min	Incandescence: 2000W Fluorescence: 1000VA Energy saving and LED: 400VA



# PLUG-IN TIME SWITCHES

- ✓ To **program electrical loads without the need for further installations**
- ✓ **High precision** mechanical version and **wide dial** for a comfortable programming
- ✓ Digital version with **extensive functionality** for more complex programming

## Plug-in mechanical time-switch

- Power supply 230VAC/50/60 Hz, contact 16A / 250VAC
- Synchronous motor mechanism
- Wide dial for a comfortable programming and visualization
- Daily program, 15 min switching
- Manual ON/AUTO switch
- LED signal for operational mode
- According to EN 60730-1:2011, EN 60730-2-7:2010+AC:2011

Article	Code	Program	Minimum switching	Running reserve	Output contacts	Supply voltage
KPS-IH-PROG15	350200125	Daily	15 minutes	-	(1)16A/250VAC	230VAC, 50-60Hz



## Plug-in digital time-switch

- Power supply 230VAC/50/60 Hz, contact 16A / 250VAC
- 98 ON/OFF programs. With rechargeable running reserve of 60 days
- Weekly program, formation of blocks of days of the week
- Random program and countdown timing
- Button for summer/winter time changeover
- According to EN 60730-1:2011, EN 60730-2-7:2010+AC:2011

Article	Code	Program	Minimum switching	Running reserve	Output contacts	Supply voltage
KPS-IH-DIGIPRO	350200126	Weekly	1 minute	Rechargeable of 60 days	(1)16A/250VAC	230VAC, 50-60Hz



## Plug-in analog time-switch for outdoors

- Power supply 230VAC, 50-60 Hz, 16A/250VAC contact
- Up to 48 daily ON/OFF programs
- Minimum program time: 30 minutes
- Manual switch ON/OFF/AUTO
- Class protection IP44. Maximum power: 3.680W
- According to EN 60730-1:2011, EN 60730-2-7:2010+AC:2011

Article	Code	Program	Minimum switching	Running reserve	Output contacts	Supply voltage
KPS-IH-PROG30-EXT	350500009	Daily	30 minutes	-	(1)16A/250VAC	230VAC, 50-60Hz



## Plug-in digital time-switch for outdoors

- Power supply 230VAC, 50-60 Hz, 8A/250VAC contact
- Up to 140 weekly ON/OFF programs
- Countdown function and random function
- Weekly program. Minimum program time: 1 minute
- Button for summer/winter time changeover
- Manual switch ON/OFF/AUTO. Running reserve of 4 months
- Class protection IP44. Maximum power: 1.800W
- According to EN 60730-1:2011, EN 60730-2-7:2010+AC:2011

Article	Code	Program	Minimum switching	Running reserve	Output contacts	Supply voltage
KPS-IH-DIGIPRO-EXT	350500010	Weekly	1 minute	4 months	(1)8A/250VAC	230VAC, 50-60Hz

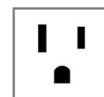


# PLUG-IN TIME SWITCHES

## Plug-in mechanical time-switch

This timer can be programmed to have up to 48 commands per day on / off.

- 125V~, 60Hz
- Up to 48 maneuvers per day
- Min operation: 30 minutes



Type B plug, Nema 5, 3 pole USA



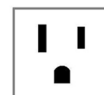
Article	Code	Maneuvers	Supply voltage
KPS-PEA MEX	999990313	Up to 48 maneuvers per day 30 minutes minimum operation	125V~, 60Hz, 16A

## Plug-in digital time-switch

With the Digital Plug-in Scheduler you can preset specific on / off times for your appliances such as coffee maker, lamps, etc.

It is ideal for saving energy and keep your home safety. With a large LCD screen, shows the status of the selected program and the real time. It has a maximum of 140 weekly on/off programs

- 125V~, 50-60Hz
- Minimum 1 min interval



Type B plug, Nema 5, 3 pole USA



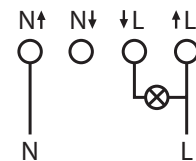
Article	Code	Maneuvers	Supply voltage
KPS-PED MEX	999990314	Minimum interval 1 min Up to 140 weekly programs	125V~, 50-60Hz, 16A

# TWILIGHT SWITCHES

- ✓ Suitable for **controlling all types of outdoor lighting**, whether it is public street lighting systems, signs, driveway lightning or building entrances.
- ✓ **Wall version** with optional auto-off function, as well as **pole version**, both **IP54**.
- ✓ Built-in **security timing** to avoid false switching.

## Wall twilight switch IP54

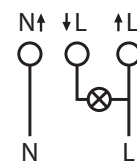
- Power supply: 230VAC, 50-60 Hz. 1 contact of 10A / 250VAC
- For wall mounting
- Protection degree IP54, suitable for outdoor applications
- Security timing of 1 min in on and off to prevent false switching
- Twilight setting from 3 to 500 lux. Adjustment LED
- Optional switching OFF timing for 1 to 9 hours from the moment it is activated
- According to EN 60669-1:1999+A1:2002+A2:2008, EN 60669-2-1:2004+A1:2009+A12:2010



Article	Code	Mounting	Twilight setting	Protection degree	Supply voltage
KPS-IC200TEMPO	350200113	Wall	3 - 500 lux	IP 54	230VAC, 50-60Hz

## Pole twilight switch IP54

- Power supply 220-240VAC, 50-60 Hz. 1 contact of 10A / 250VAC
- For pole mounting
- Protection degree IP 54, suitable for outdoor placement
- 1 min on/off security timing to prevent false switching
- Twilight setting from 5 to 300 lux
- Externally accessible ajustable potentiometer
- According to EN 60669-1:1999+A1:2002+A2:2008, EN 60669-2-1:2004+A1:2009+A12:2010

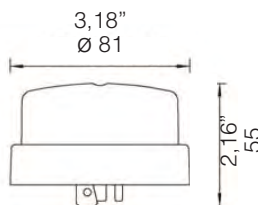
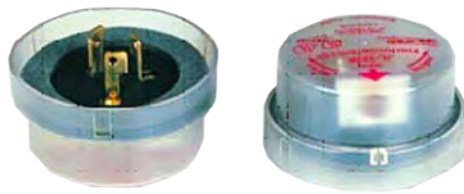


Article	Code	Mounting	Twilight setting	Protection degree	Supply voltage
KPS-IC300	350200136	Wall / Pole	5 - 300 lux	IP 54	220-240VAC, 50/60Hz

# PHOTOCELLS

## • Photocell according to Mexican Standard NOM-003-SCFI-2000

- Photocontrol for lighting control according to ANSI C136.10
- Bimetallic switch operation
- UV stabilized polycarbonate housing
- Impact resistant base made of PBT
- Ignition bright threshold: 10-20 lux (dusk)
- Light off threshold: 30-60 lux (sunrise)
- Fail-OFF mode. Delay time to avoid unwanted maneuvers: 30-120 sec
- Supply voltage: 110-130V ~, 220-240V ~
- Power frequency: 60 Hz. Power consumption: Max. 1.5VA
- Contact Capacity: 1800W Tungsten / 1000VA Ballast
- Rated temperature range from -40 ° C to + 70 ° C
- Operating relative humidity: max. 96%
- Transparent color. UL certified. IP 65



Article	Code	Color	Contact capacity	Supply voltage
KPS-FC1000TH 220V	350990107	Transparent	1.000W Tungsten / 1800VA Ballast	220-240V~, 60Hz

## • Photocell according to Mexican Standard NOM-003-SCFI-2000

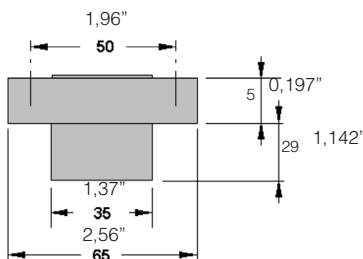
- Photocontrol for lighting control. NEMA connect and rotate via 3 terminals
- LDR photoresist lighting control
- Ignition light threshold: 35 - 65 lux. On / off factor of 5
- UV stabilized polycarbonate housing
- Supply voltage: 105-285V ~. Power frequency: 50-60Hz
- Contact capacity: Incandescence: 1.000W / 1.800VAm<sub>ax</sub> Cosφ ≥ 0.4
- 3-wire connection. Degree of protection IP54
- ABS body and base with high impact resistance
- Brass contacts. Rated temperature range from -40 ° C to + 70 ° C
- Weight: 80 g. Diameter: 81mm, height: 55mm. Color: standard blue
- Optional: Overvoltage protection (MOV) after definition



Article	Code	Color	Contact capacity	Supply voltage
KPS-FC500MX	350990105	Blue	Incandescence: 1.000W	105-285V~

## • Photocell base

- Valid for photocontrol KPS-FC500MX
- Supply voltage: 120 / 220V ~
- Frequency: 60Hz
- Cables: 14AWG, 25cm length black, white and red
- Operating temperature: -40 ° C ~ + 70 ° C
- Output contact: 10A

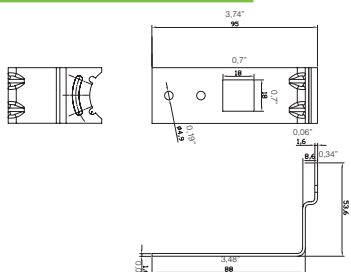


Article	Code	Color	Output contact	Supply voltage
KPS-BFC	350990108	Black	10A	120/220V~, 60Hz

## • Metal bracket for photocell

- Wall-mounted metallic bracket for photocell.

Article	Code	Description
KPS-AFC	350990118	Metal bracket for photocell



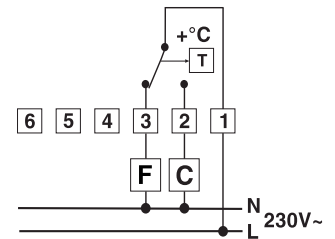


# THERMOSTATS

- √ Expandable gas membrane technology, that gives the thermostats **durability** and **precision** when regulating temperature.
- √ All the **models allow for heating and cooling control** through its changeover contact.
- √ Versions with ON/OFF switch to enable/disable the heating/cooling equipment, in addition to a **LED indicator for the load connection**.

## Analog thermostat

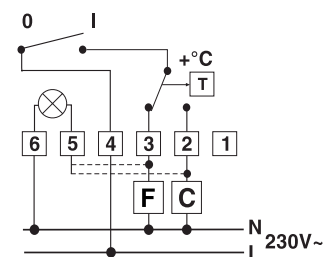
- Expandable gas membrane technology. Potential-free switched contact 10(2) A/250VAC
- Wall mounting. Does not need power supply, 2-wire connection
- For cooling (NC)/ heating (NA) equipment control
- Temperature control of + 5° C to + 35° C. ON / OFF switching with fixed temperature differential
- Temperature setting via graduated dial with the possibility of locking on a temperature range
- According to EN 60730-1:2011, EN 60730-2-9:2010



Article	Code	Features
KPS-TERMO	350200145	Cooling and heating control
KPS-TERMO-MARCO	350200148	Frame for mounting in appliance box

## Analog thermostat with ON/OFF switch

- Expandable gas membrane technology
- Wall mounting. Does not need power supply, 2-wire connection
- Potential-free changeover contact 10(2) A/250VAC
- For cooling (NC)/ heating (NA) equipment control. Temperature control of + 5° C to + 35° C
- ON/OFF switch to enable/disable the heating/cooling system
- LED indicator for ON
- ON/OFF switching with fixed temperature differential
- Temperature setting via graduated dial with the possibility of locking on a temperature range



Article	Code	Features
KPS-TERMO-ON/OFF	350200146	Cooling and heating control ON/OFF switch LED indicator for ON
KPS-TERMO-MARCO	350200148	Frame for mounting in appliance box

# HOURS METERS

- ✓ Hour meters measure the **hours of operation of any electrical load**, and thus allow to perform preventive maintenance on machines, monitor guarantees, pricing, etc.
- ✓ Version for embed in machinery as well as on DIN rail for electrical panels.

## Panel mounting hour meters

- Power supply 230VAC / 50 Hz. Synchronous motor mechanism
- Panel mounting. Frontal panel 55 x 55 mm. Fixing hole 46x46 mm
- Metering capacity 99,999, 99 h
- Not resettable. Protection degree IP54
- 2-wire connection in parallel with the load
- According to EN 61010-1:2010, EN 61000-6-2:2005, EN 61000-6-3:2007+A1:2011/AC:2012



Article	Code	Mounting	Dimensions	Metering capacity	Supply voltage*
KPS-CONTA55EMP	350200127	Panel mounting	Frontal panel 55 x 55 mm	99.999,99 h	230VAC, 50Hz

\*Check for other operating voltages and frequencies.

## Hour meter for DIN rail

- Power supply 230VAC / 50 Hz
- Synchronous motor mechanism. 2 DIN rail modules
- Metering capacity 99 999,99 h. Not resettable
- 2-wire connection in parallel with the load
- According to EN 61010-1:2010, EN 61000-6-2:2005, EN 61000-6-3:2007+A1:2011/AC:2012



Article	Code	Mounting	Dimensions	Metering capacity	Supply voltage*
KPS-CONTA2DIN	350200128	DIN rail	2 modules DIN rail	99.999,99 h	230VAC, 50Hz

\*Check for other operating voltages and frequencies.

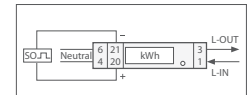
# ENERGY METERS FOR DIN RAIL

- √ There is an ever-growing trend towards energy saving measures, and it is becoming increasingly important to **measure the energy consumption** of the different circuits and/or electric loads.
- √ Our range of energy meters allows for the measuring of consumption in any type of circuit and with different technologies; single phase circuits and three-phase with different current capacities, with analog and digital technology.
- √ Its **high accuracy** (Accuracy class 1 according to IEC62053) ensures **measuring reliability at all times**.

## Single-phase analog energy meter

- Single phase analog energy meter, direct reading 1 module wide
- Metering capacity 99 999.9 kWh. Not resettable. Sealable
- Nominal voltage 230 VAC±20%. Base current 5A, current limit 45A
- Pulse output type S0 and optics via LED, 1.000imp / kWh:
  - Voltage: 12-27VDC. Maximum current <27mA
  - Maximum cable length: 20 m. Pulse duration: 90ms

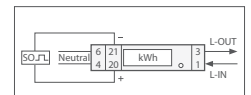
Article	Code	Mounting	Dimensions	Metering capacity	Supply voltage
KPS-ME-50MEC 1F	350200137	DIN rail	1 module DIN rail	99.999,9 kWh	230VAC±20%, 50Hz



## Single-phase digital energy meter

- Single phase digital energy meter, direct reading, 1 module wide
- Metering capacity 99 999.99 kWh Not resettable. Sealable
- Nominal voltage 230 VAC±20%. Base current 5A, current limit 45A
- Pulse output type S0 and optics via LED, 1.000imp / kWh:
  - Voltage: 12-27VDC. Maximum current <27mA
  - Maximum cable length: 20 m. Pulse duration: 90ms

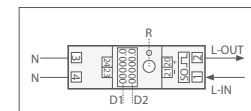
Article	Code	Mounting	Dimensions	Metering capacity	Supply voltage
KPS-ME-50DIGI 1F	350200138	DIN rail	1 module DIN rail	99.999,99 kWh	230VAC±20%, 50Hz



## Single-phase digital energy meter

- Single-phase digital energy meter, direct reading. 2 modules wide
- Metering capacity up to 99 999.99 kWh
- Total count (not resettable) and partial count (resettable). Sealable
- Nominal voltage 230 VAC±20%. Current base 5A, limit current 80A
- Pulse output type S0 and optics via LED, 1.000imp / kWh:
  - Voltage: 12-27VDC. Maximum current <27mA
  - Maximum cable length: 20 m. Pulse duration: 90ms

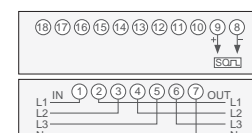
Article	Code	Mounting	Dimensions	Metering capacity	Supply voltage
KPS-ME-80DIGI-1F	350200139	Rail DIN	2 modules DIN rail	99.999,99 kWh	230VAC±20%, 50Hz



## Three-phase digital energy meter

- Three-phase digital energy meter, direct reading. 7 modules wide
- Metering capacity up to 99 999.99 kWh Not resettable. Sealable
- Rated voltage 3x230 /400VAC±15%. Base current 10A, limit current 100A
- Pulse output type S0 and optics via LED, 1.000imp / kWh:
  - Voltage: 12-27VDC. Maximum current <27mA
  - Maximum cable length: 20 m. Pulse duration: 90ms

Article	Code	Mounting	Dimensions	Metering capacity	Supply voltage
KPS-ME-100DIGI-3F	350200140	DIN rail	7 mod. DIN rail	99.999,99 kWh	3x230/400VAC ±15%, 50Hz



# DOORCHIMES

- ✓ Doorbells and buzzers for **domestic and commercial uses**
- ✓ **Electromechanical** or **electronic** operation
- ✓ Battery powered **wireless** or **wired** versions

## Electromechanical buzzer

- 230VAC, 50-60 Hz. Compact size. High sound level. According to EN 62080:2009

Article	Code	Installation	Connection	Supply voltage
KPS-BUZZER	350200141	Wall	2-wire	230VAC, 50/60Hz



## Ding-dong doorbell

- Electromechanical ding-dong doorbell. Power supply: 230VAC, 50-60 Hz.
- 10,000 turn coil that gives it a long service life
- High powered sound, suitable for household environments
- According to EN 62080:2009

Article	Code	Installation	Connection	Supply voltage
KPS-TIMBDUO	350200142	Wall	2-wire	230VAC, 50/60Hz



## Wireless electronic doorbell

- Portable wireless doorbell. Electronic operation
- 16 chime melodies (selectable from the transmitter)
- Reach range of 80m between the transmitter and receiver
- Light indicator when the bell is sounding. Transmitter with label holder

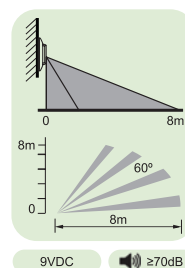
Article	Code	Installation	Connection	Supply voltage
KPS-TIMBWLESS	350200143	Wall	2-wire	Transmitter: 1 battery A23 (included) Receiver: 3 battery AA (included)



## Mini sensor alarm with integrated presence detector

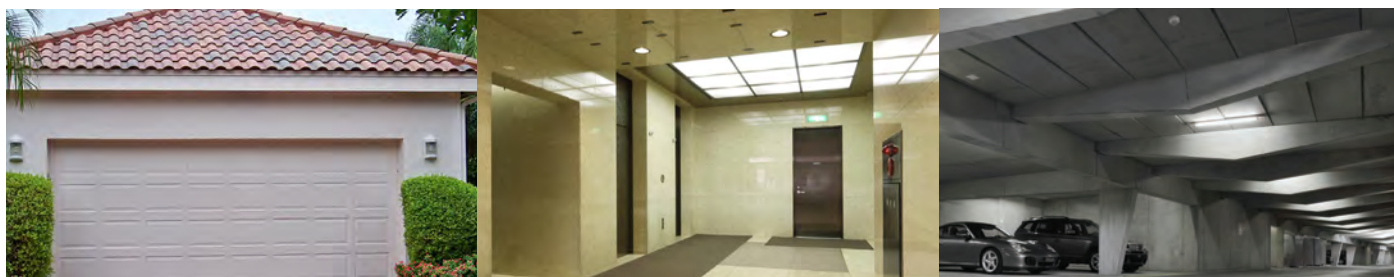
- Mini sensor alarm with integrated presence detector. Detection range: 60°
- Detection distance: 8 m. Sound: 70 dB
- 3 positions: chime (ring function), alarm and OFF

Article	Code	Installation	Connection	Supply voltage
Timbre con detector de presencia	999990312	Wall	2-wire	1 x 9V battery (included)



# MOVEMENT AND PRESENCE DETECTORS

- ✓ In **KPS' range of movement detectors** there is a series of detectors that cover all kinds of uses, as well as **sensor lights**, which are the perfect product for renovations thanks to their simple and fast **two-wire** installation.
- ✓ This range is **suitable for LED lamps**, and have been designed with advanced control technologies such as **Zero Cross switching**, which **extends the service life** of the product.
- ✓ **Quality, reliability** and **durability** are the bases of this new range of product

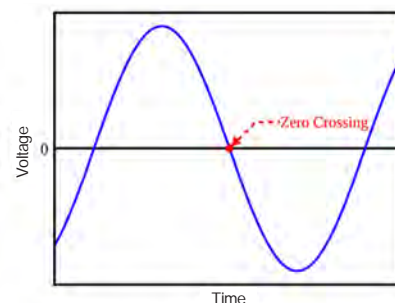


## Zero Cross Switching Contrôle de passage par zéro

*It extends the life of the product up to a 30%*

This technology features a relay which **cuts off the lamp current** when the AC voltage crosses zero. Thereby minimizing the current flowing through the relay, avoiding the wear and tear that it produces and thus **lengthening the maximum life** of both the relay and the time switch.

ZCS TECHNOLOGY  
Zero Cross Switching



## PIR technology (passive infrareds)

The movement detectors with PIR technology are designed to **detect moving heat sources** within their field of action, turning on and off the lights automatically.

We have developed using this technology high-sensitivity sensors that use **infrared electromagnetic waves**, which are invisible to the human eye.

These sensors translate the thermal radiation of objects into electrical signals.



## RADAR technology (high frequency)

Those detectors that are based on this technology are **active detectors**, i.e. they emit electromagnetic waves and measure the reflected waves on their way back to the detector.

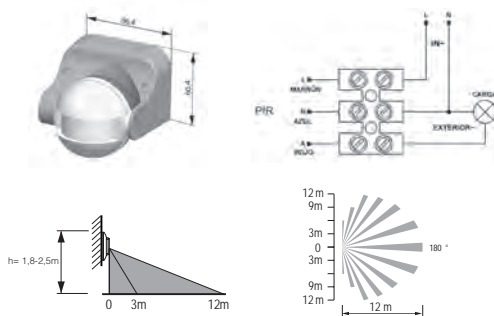
This technology is **much more sensitive** than PIR technology, detecting minimal movements by analyzing the waveform and frequency.



# MOVEMENT AND PRESENCE DETECTORS

## Wall movement detector

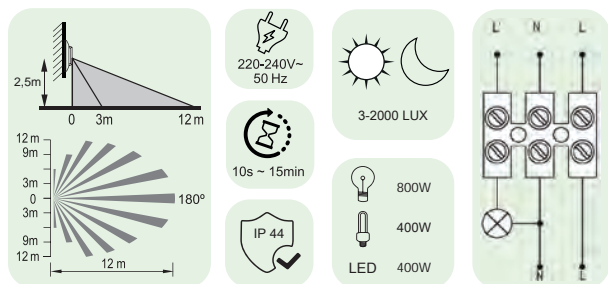
- Angle of coverage: 180°
- Supply voltage:
  - 110-130V~, 50-60Hz
- Max. contact capacity:
  - 800W (Incandescence)
  - 200W (energy saving and LED lamps)
- Area of coverage: máx. 12m
- Time adjustment: 10 sec. to 7 min.
- Lux adjustment: 3-2000LUX
- Protection degree: IP44.



Article	Code	Color	Angle of coverage	Area of coverage	Supply voltage
DETELUX 180 PRO 110V	350100101	White	180°	12 m	110-130V~, 50-60Hz

## Wall mini movement detector

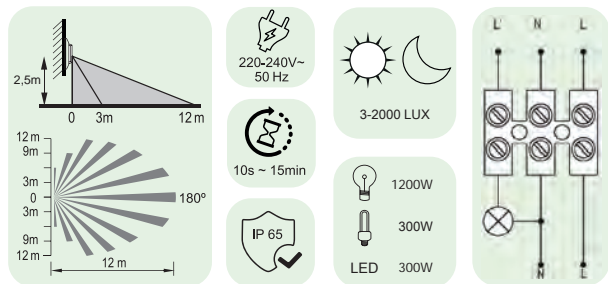
- Mini format for wall-mounting installation
- Horizontally and vertically adjustable head
- 180° coverage and maximum reach of 12 m



Article	Code	Angle of coverage	Area of coverage	Adjustment twilight	Contact capacity	Supply voltage
DETELUX 180 MINI 220V	350200114	180°	12 m (at 2,5 m height)	3 - 2000 lux	Incandescence: 800W Energy saving lamps: 400W LED lamps: 400W	220-240VAC, 50/60Hz
DETELUX 180 MINI 110V	Consult	180°	12 m (at 2,5 m height)	3 - 2000 lux	Incandescence: 800W Energy saving lamps: 400W LED lamps: 400W	110-130VAC, 50/60Hz

## Outdoor movement detector

- Protection degree IP65, suited for outdoor use.
- Horizontally and vertically adjustable head
- 180° coverage and maximum reach of 12 m



Article	Code	Angle of coverage	Area of coverage	Adjustment twilight	Contact capacity	Supply voltage
DETELUX 180IP 220V	350100102	180°	12 m (at 2,5 m height)	3 - 2000 lux	Incandescence: 1200W / Energy saving lamps: 300W / LED lamps: 300W	220-240VAC, 50/60Hz
DETELUX 180IP 110V	350100103	180°	12 m (at 2,5 m height)	3 - 2000 lux	Incandescence: 800W / Energy saving lamps: 200W / LED lamps: 200W	110-130VAC, 50/60Hz

# MOVEMENT AND PRESENCE DETECTORS

## Ceiling mounting movement detector

- Led indicator of movement detection
- Externally accessible potentiometer
- 360° detection coverage

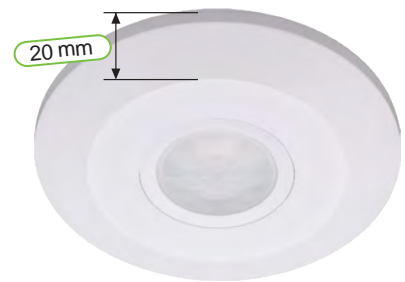


Article	Code	Angle of coverage	Area of coverage	Adjustment twilight	Contact capacity	Supply voltage
DETELUX 360 SU PRO 220V	350200100	360°	6 m diameter (at 2,2 m height)	3 - 2000 lux	Incandescence: 1200W Energy saving and LED lamps: 300W	220-240VAC, 50/60Hz
DETELUX 360 SU PRO 110V	350200106	360°	6 m diameter (at 2,2 m height)	3 - 2000 lux	Incandescence: 800W Energy saving and LED lamps: 300W	110-130VAC, 50/60Hz

## Ceiling mounting slimline presence detector

- Ceiling mounting slimline presence detector, only 2 cm high
- The same 360° coverage as other ceiling mounting conventional detectors.
- 2000W relay with high switching power

Installation height (h)	Coverage area (Ø)
2,2 m	6 m
3 m	10 m
3,5 m	10 m



Article	Code	Angle of coverage	Area of coverage	Adjustment twilight	Contact capacity	Supply voltage
DETELUX 360 SU SLIM 220V	350200115	360°	6 m diameter (at 2,2 m height)	3 - 2000 lux	Incandescence: 2000W / Energy saving and LED lamps: 1000W	220-240VAC, 50/60Hz
DETELUX 360 SU SLIM 110V	350200152	360°	6 m diameter (at 2,2 m height)	3 - 2000 lux	Incandescence: 2000W / Energy saving and LED lamps: 1000W	110-130VAC, 50/60Hz

## Presence detector for large areas and corridors

- Ceiling mounting presence detector with 3 sensors
- Large detection area, 20 m diameter
- 2000W relay with high switching power



Article	Code	Angle of coverage	Area of coverage	Adjustment twilight	Contact capacity	Supply voltage
DETELUX 360GS 220V	350400104	360°	20 m diameter (at 3 m height)	3 - 2000 lux	Incandescence: 2000W Energy saving lamps: 1000W LED lamps: 1000W	220-240VAC, 50/60Hz

# MOVEMENT AND PRESENCE DETECTORS

## False ceiling movement detector

- Downlight format for installations in false ceilings
- 360° Detection coverage
- Easy and fast to setup up and install




Article	Code	Angle of coverage	Area of coverage	Adjustment twilight	Contact capacity	Supply voltage
DETELUX 360FC PRO 220V	350200101	360°	6 m diameter (at 2,2 m height)	3 - 2000 lux	Incandescence: 1200W Energy saving and LEDlamps: 300W	220-240VAC, 50/60Hz
DETELUX 360FC PRO 110V	350200103	360°	6 m diameter (at 2,2 m height)	3 - 2000 lux	Incandescence: 800W Energy saving and LEDlamps: 300W	110-130VAC, 50/60Hz

## False ceiling mini movement detector

- False ceiling mini movement detector, utmost discretion
- Head of just 5 cm diameter
- Externally accessible potentiometer behind the external ring




Article	Code	Angle of coverage	Area of coverage	Adjustment twilight	Contact capacity	Supply voltage
DETELUX 360 FC MINI PRO 220V	350200102	360°	6 m diameter (at 2,2 m height)	3 - 2000 lux	Incandescence: 800W Energy saving and lamps: 400W	220-240VAC, 50/60Hz
DETELUX 360 FC MINI PRO 110V	350200104	360°	6 m diameter (at 2,2 m height)	3 - 2000 lux	Incandescence: 500W Energy saving and lamps: 400W	110-130VAC, 50/60Hz

## False ceiling micro movement detector

- False ceiling micro movement detector, head of just 2 cm diameter
- For installation in false ceilings, interior of closets, etc.
- Time and lux adjustment



Article	Code	Angle of coverage	Area of coverage	Adjustment twilight	Contact capacity	Supply voltage
DETELUX 360 FC MICRO 220V	390100003	360°	6 m diameter (at 2,2 m height)	3 - 2000 lux	Incandescence: 800W Energy saving lamps: 200W LED lamps: 200W	220-240VAC, 50Hz



# MOVEMENT AND PRESENCE DETECTORS

## Movement detector hidden in false ceiling

- It detects through surfaces, allowing you to install the product above false ceilings, remaining hidden
- 5.8 GHz high frequency technology
- Great coverage of up to 20 m in diameter (adjustable from 2 to 20 m)




Article	Code	Angle of coverage	Area of coverage	Adjustment twilight	Contact capacity	Supply voltage
DETELUX HF01	350400003	360°	20 m diameter (at 2,2 m height)	2 - 2000 lux	Incandescence: 1200W Energy saving lamps: 300W LED lamps: 300W	220-240VAC, 50/60Hz

## Movement detector for wiring devices boxes

- 2, 3-wire connection, perfect for renovations
- Manual ON / OFF / AUTO switch
- The potentiometer and switch remain hidden behind the protective cover, to avoid any tampering



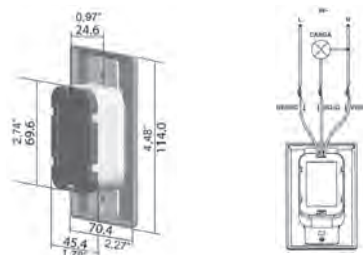
\*Minimum power required: 5W to 2 wires  
\*Puissance minimum requise de 5W à 2 fils



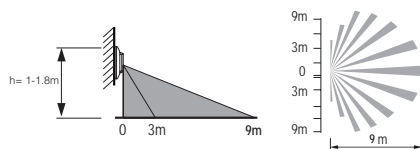
Article	Code	Angle of coverage	Area of coverage	Adjustment twilight	Contact capacity	Supply voltage
DETELUX 180 BOX DUO	350200116	180°	9 m (at 1,1 m height)	3 - 2000 lux	Incandescence: 500W Energy saving lamps: 200W LED lamps: 200W	220-240VAC, 50/60Hz

## Movement detector for American wiring devices boxes

- Angle of coverage: 180°
- Supply voltage:
  - 110-220V~
- Max. contact capacity:
  - 800W (110-130V~)
  - 1200W (220-240V~)
- Area of coverage: máx. 9m (24°C)
- Time adjustment: Adjustable 10 sec. to 7 min.
- Lux adjustment: 20-2.000Lux
- Installation height: 1-1.8m



**NOM**



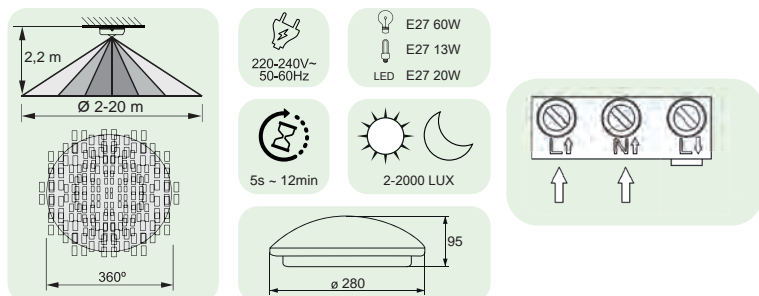
ZCS TECHNOLOGY  
Zero Cross Switching

Article	Code	Color	Angle of coverage	Area of coverage	Supply voltage
DETELUX 180 BOX-R PRO 2x4 110V-220V	350300100	White	180°	9 m	110-220V~, 50-60Hz

# SENSOR LIGHTS

## RADAR sensor light

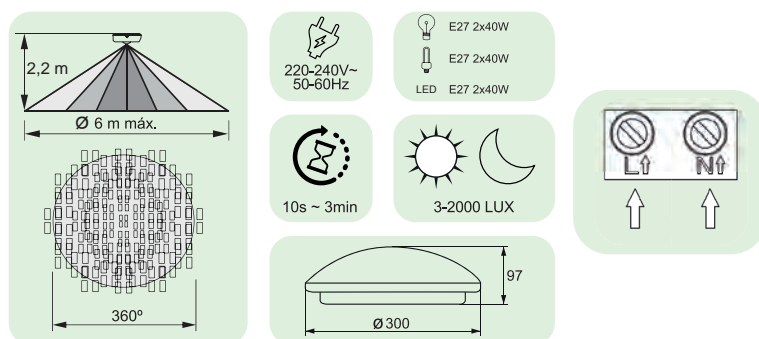
- High frequency RADAR detection
- E27 lamp holder, suitable for all types of lamps
- Glass lampshades
- Additional terminal for secondary load control



Article	Code	Angle of coverage	Area of coverage	Contact capacity	Supply voltage
DETELUX 360 RADAR 220	350400001	360°	2-20 m diameter (at 2,2 m height)	Incandescence: 60W E27 Energy saving lamps: 13W E27 LED lamps: 20W E27	220-240VAC, 50/60Hz

## PIR sensor light

- PIR detection
- 2 Lamp holders E27 suitable for all types of lamps
- Glass lampshades
- The wide curvature of the dome light allows the installation of large lamps.



Article	Code	Angle of coverage	Area of coverage	Contact capacity	Supply voltage
DETELUX 360 PIR	350200106	360°	6 m diameter (at 2,2 m height)	2x40W E27	220-240VAC, 50/60Hz

# SENSOR LIGHTS

## RADAR sensor light with built-in LED

- High Frequency RADAR detection with built-in LED board
- Plastic lampshades
- Neutral white light suitable for commercial environments and common areas in buildings



Article	Code	Angle of coverage	Area of coverage	Contact capacity	Supply voltage
DETELUX 360 RADAR LED PMMA	350400103	360°	2-20 m diameter (at 2,2 m height)	15W built-in LED. 1050 lumens. 4000K	220-240VAC, 50/60Hz

## PIR sensor light with built-in LED

- PIR detection with built-in LED board
- Plastic lampshades
- Only 6 cm high, aesthetically pleasing
- Neutral white light suitable for commercial environments and common areas in buildings



Article	Code	Angle of coverage	Area of coverage	Contact capacity	Supply voltage
DETELUX 360 PIR LED PC 110-220	350200112	360°	6 m diameter (at 2,2 m height)	16W built-in LED. 1100 lumens. 4000K	110-240VAC, 50/60Hz
DETELUX 360 PIR LED PC 20W	350200159	360°	6 m diameter (at 2,2 m height)	20W built-in LED. 1600 lumens. 4000K	110-240VAC, 50/60Hz

## PIR sensor light with built-in LED

- PIR detection with built-in LED board
- Plastic lampshades
- Neutral white light suitable for commercial environments and common areas in buildings













ZCS TECHNOLOGY  
Zero Cross Switching

Article	Code	Angle of coverage	Area of coverage	Contact capacity	Supply voltage
DETELUX 160 PIR LED PC	350200167	160°	9 m diameter (at 2,2 m height)	15W built-in LED. 1300 lumens. 4000K	110-240VAC, 50/60Hz

# MOVEMENT AND PRESENCE DETECTORS

## Quick selection chart

FUNCTIONS										
	WALL MINI DETECTOR	OUTDOOR WALL DETECTOR	CEILING DETECTOR	SLIMLINE CEILING DETECTOR	CEILING DETECTOR FOR LARGE AREAS	FALSE CEILING DETECTOR	FALSE CEILING MINI DETECTOR	FALSE CEILING MICRO DETECTOR PLAFOND	IN-FALSE CEILING HIDDEN DETECTOR	WIRING DEVICES BOX DETECTOR
Code	350200114	350100102	350200100	350200115	350400104	350200101	350200102	390100003	350400003	350200116
Installation	Wall	Wall	Ceiling	Ceiling	Ceiling	False ceiling	False ceiling	False ceiling	Hidden above false ceiling	Wiring device box
Supply voltage*	220-240VAC, 50/60Hz	220-240VAC, 50/60Hz	220-240VAC, 50/60Hz	220-240VAC, 50/60Hz	220-240VAC, 50/60Hz	220-240VAC, 50/60Hz	220-240VAC, 50/60Hz	220-240VAC, 50Hz	220-240VAC, 50/60Hz	220-240VAC, 50Hz
Connection	3-wire	3-wire	3-wire	3-wire	3-wire	3-wire	3-wire	3-wire	3-wire	2 and 3 wire
Technology	Infrarouge	Infrarouge	Infrarouge	Infrarouge	Infrarouge	Infrarouge	Infrarouge	Infrarouge	Haute fréquence 5.8GHz	Infrarouge
Coverage area	180°	180°	360°	360°	360°	360°	360°	360°	360°	180°
Range	Linear of 12 m (at 2,5 m)	Linear of 12 m (at 2,5 m)	6 m diameter (at 2,2 m)	6 m diameter (at 2,2 m)	6 m diameter (at 2,2 m)	6 m diameter (at 2,2 m)	6 m diameter (at 2,2 m)	6 m diameter (at 2,2 m)	20 m diameter (at 2,2 m)	Linear of 9 m (at 1,1 m)
Installation height	1,8 - 2,5 m	1,8 - 2,5 m	2,2 - 4 m	2,2 - 4 m	2,2 - 6 m	2,2 - 4 m	2,2 - 4 m	2,2 - 4 m	2,2 - 4 m	1 - 1,8 m
Time setting	10 sec - 15 min	10 sec - 15 min	10 sec - 7 min	10 sec - 15 min	10 sec - 30min	10sec-15min	10sec-15 min	10 sec - 8 min	8 sec - 12 min	10 sec - 7 min
Twilight adjustment	3-2.000 lux	3-2.000 lux	3-2.000 lux	3-2.000 lux	3-2.000 lux	3-2.000 lux	3-2.000 lux	3-2.000 lux	2-2.000 lux	3-2.000 lux
Relay Technology	Zero Cross Switching	Zero Cross Switching	Standard	Zero Cross Switching	Zero Cross Switching	Zero Cross Switching	Zero Cross Switching	Standard	Standard	Standard
Protection degree	IP44	IP65	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Contact capacity	Incandescence: 800W Energy saving lamps and LED: 400W	Incandescence: 1.200W Energy saving lamps and LED: 300W	Incandescence: 1.200W Energy saving lamps and LED: 300W	Incandescence: 2.000W Energy saving lamps and LED: 1000W	Incandescence: 2000W Energy saving lamps and LED: 1000W	Incandescence: 1.200W Energy saving lamps and LED: 300W	Incandescence: 800W Energy saving lamps and LED: 400W	Incandescence: 800W Energy saving lamps and LED: 200W	Incandescence: 1.200W Energy saving lamps and LED: 300W	Incandescence: 500W Energy saving lamps and LED: 200W

\*Consult us for 110V version.









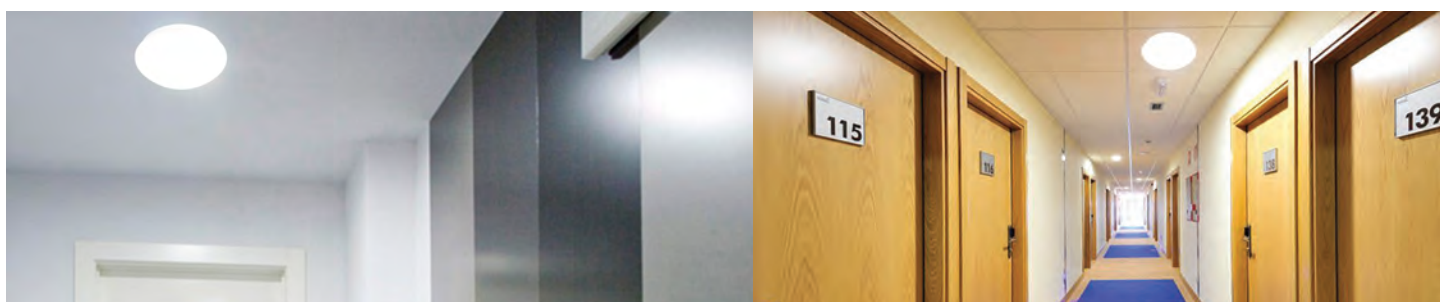
ZCS TECHNOLOGY  
Zero Cross Switching



# SENSOR LIGHTS

## Quick selection chart

FONCTIONS						
	DETELUX 360 RADAR 220	DETELUX 360 PIR	DETELUX 360 RADARLED PMMA	DETELUX 360 PIR LEC PC 110-220	DETELUX 360 PIR LEC PC 20W	DETELUX 160 PIR LEC PC
	DOME LIGHT LAMP HOLDER WITH RADAR DETECTOR	DOME LIGHT LAMP HOLDER WITH PIR DETECTOR	LED DOME LIGHT WITH RADAR SENSOR	LED DOME LIGHT WITH PIR SENSOR	LED DOME LIGHT WITH PIR SENSOR	LED DOME LIGHT WITH PIR SENSOR
Code	350400001	350200106	350400103	350200112	350200159	350200167
Supply voltage	230VAC, 50/60Hz	230VAC, 50/60Hz	230VAC, 50/60Hz	110-240VAC, 50/60Hz	110-240VAC, 50/60Hz	110-240VAC, 50/60Hz
Connection	2-wire	2-wire	2-wire	2-wire	2-wire	2-wire
Technology	5,8GHz high frequency	Infrared	5,8GHz high frequency	Infrared	Infrared	Infrared
Coverage angle	360°	360°	360°	360°	360°	160°
Range	20 m diameter (at 2,2 m)	6 m diameter (at 2,2 m)	20 m diameter (at 2,2 m)	6 m diameter (at 2,2 m)	6 m diameter (at 2,2 m)	9 m diameter (at 2,2 m)
Time setting	5 sec - 12 min	10 sec - 3 min	8 sec - 12 min	10 sec - 3 min	10 sec - 3 min	10 sec - 5 min
Twilight Adjustment	2 - 2.000 lux	3 - 2.000 lux	2 - 2.000 lux	3 - 2.000 lux	3 - 2.000 lux	3 - 2.000 lux
Installation height	2-4 m	2,2-4 m	2,5-3,5 m	2,2-4 m	2,2-4 m	1,8-2,2 m
Lamp	1 lampholder E27 60W	2 lampholder E27 40W	15W LED board, 1.050 lumens, 4.000K	16W LED board, 1.100 lumens, 4.000K	20W LED board, 1.600 lumens, 4.000K	15W LED board, 1.300 lumens, 4.000K
Base material	Polycarbonate	White aluminium	White aluminium	White aluminium	White aluminium	White aluminium
Shade material	Glass	Glass	Plastic (PMMA)	Plastic (polycarbonate)	Plastic (polycarbonate)	Plastic (polycarbonate)
Protection degree	IP20	IP20	IP20	IP20	IP20	IP44



# SAFETY DETECTORS

- √ Security detectors for a **wide range of variables**, such as smoke, gas and CO detectors.
- √ **High sensitivity** detection for greater security.
- √ **Ease** and **speed** of installation and commissioning.

## Smoke detector

- On-ceiling installation
- Acoustic indication of detection. Maximum volume: 85 dB
- Indication light of operation via LED. Acoustic indication of low battery
- Power supply: 1 x 9V battery (included). Dimensions: 101 x 34 mm
- Suitable for indoor use. EN 14604:2005 / AC:2008



Article	Code	Mounting	Supply voltage
KPS-DS_HUMO	350500005	Ceiling	1 x 9V battery (included)

## Mini smoke detector

- On-ceiling installation, compact size
- Acoustic indication of detection. Maximum volume: 85 dB
- Indication light of operation via LED. Acoustic indication of low battery
- Power supply: 3 x 3V CR2450 batteries (included). Dimensions: 72 x 37 mm
- Suitable for indoor use. EN 14604:2005/AC:2008



Article	Code	Mounting	Supply voltage
KPS-DS_HUMOMINI	350500006	Ceiling	3 x 3V CR2450 batteries (included)

## Wireless smoke detector

- Wireless operation. On-ceiling installation
- Acoustic indication of detection. Maximum volume: 85 dB
- Indication light of operation
- Power supply: 1 x 9V battery + 3 x 1,5V batteries (included)
- Dimensions: 128 x 50 mm
- Suitable for indoor use. EN 14604:2005/AC:2008



Article	Code	Mounting	Supply voltage
KPS-DS_HUMOLESS	350500007	Ceiling	1 x 9V battery + 3 x 1,5V batteries (included)

## Gas detector

- On-wall installation
- Liquid gas and natural gas leakage (LPG) detection
- Indication light of operation via LED. Acoustic indication of detection 85 dB
- Power supply: 230VAC, 50-60 Hz. Alarm level: < 25%LEL
- Dimensions: 126 x 73 x 76 mm. Suitable for indoor use

Article	Code	Mounting	Supply voltage
KPS-DS_GAS	350500004	Wall	230VAC, 50/60Hz



# SAFETY DETECTORS

## Flood detector

- Suitable for the detection of water filtrations. Installation on surface
- Acoustic indication of detection 85 dB
- Response time: <7 seconds. Operating temperature: +1°C to 60°C
- Power supply: 1 x 9V battery (included)
- Dimensions: 86 x 82 x 30 mm. Weight: 100g

Article	Code	Mounting	Supply voltage
KPS-DS_INUNDACIÓN	350500008	Surface	1 x 9V battery (included)



## CO detector

- Carbon monoxide (CO) detector. On-ceiling installation
- Acoustic indication of detection. Maximum volume: 85 dB
- LCD screen with visual indication of CO concentration
- Indication light of operation via LED
- Acoustic and light indication of low battery
- Power supply: 3 x 1,5V batteries (included)
- Dimensions: 115 x 37 mm. Weight: 120 g
- Suitable for indoor use

Article	Code	Mounting	Supply voltage
KPS-DS_CO	350500002	Ceiling	3 x 1,5V batteries (included)



## CO + smoke detector

- Carbon monoxide (CO) and smoke detector. On-ceiling installation
- Acoustic indication of detection. Maximum volume: 85 dB
- LCD screen with visual indication of CO concentration and of smoke detection
- Indication light of operation via LED. Acoustic and light indication of low battery
- Power supply: 1 x 9V battery (included)
- Dimensions: 115 x 37 mm. Weight: 120 g. Suitable for indoor use

Article	Code	Mounting	Supply voltage
KPS-DS_COHUMO	350500003	Ceiling	1 x 9V battery (included)



## Heat detector

- Suitable for the detection of early signs of fire On-wall or on-ceiling installation
- Acoustic and light indication of detection. Maximum volume: 85 dB
- Detection temperature 55±5 °C. Acoustic and light indication of low battery
- Power supply: 1 x 9V battery (included)
- Dimensions: 107 x 107 x 37,5 mm. Weight: 220g

Article	Code	Mounting	Supply voltage
KPS-DS_CALOR	350500001	Wall our ceiling	1 x 9V battery (included)




# Let us help you with power factor correction system

The most complete service to help, design and install  
your power factor correction system.

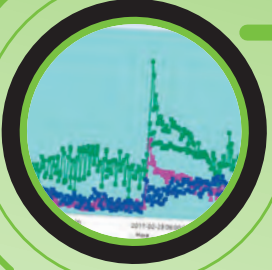
Leave it in our hands!

## 1 Measurement




We measure, using the most advanced equipment, all the electrical parameters of the installation (intensity, harmonics, power factor, reactive power ...)

## 2 Analysis




Our engineering department analyzes and studies the data obtained, proposing the solution to be adopted.

## Report




We prepare a report on energy consumption, and propose improvements, with analysis of all the parameters that influence the choice of a battery.

## 4 Start Up




We give all the facilities in the implementation of corrective measures in power factor correction systems.

## Support and Maintenance



We have specialized technicians providing support at all times, we also have everything needed for maintenance.

## 6 Training



We offer staff training, so they can safely perform all functions necessary for a correct choice for power factor correction systems.

More information

[info@kps-euman.com](mailto:info@kps-euman.com)

+34.985.081.873





## POWER FACTOR CORRECTION

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## CAPACITOR BANKS

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The energy demand of an electrical installation that transforms into “useful” work is the active energy. There are electric devices due to its operating principle, require additional power from another type, it is called power factor correction.

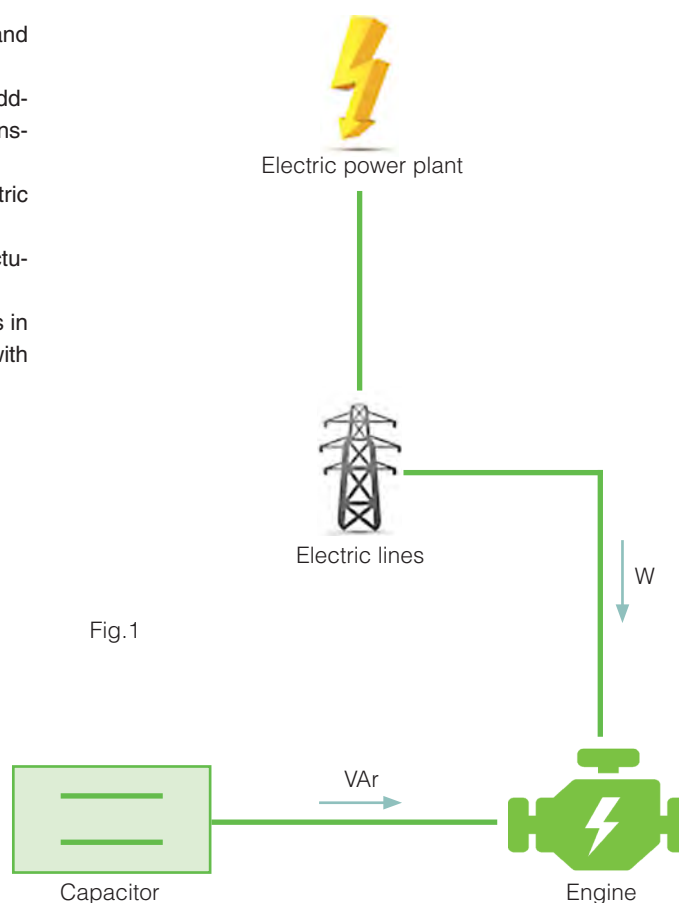
This need causes a higher load both for electrical power plant, as for power lines that transmit energy to the consumer installation. Capacitors allow “produce” in situ reactive power demanded by loads, with clear advantages for the user’s system and to the underlying grid. It is said that with the installation of capacitors, the power factor of the installation ( $\cos \phi$ ) is corrected or what is the same, the consumption of reactive power loads, is compensated (Fig. 1).

#### • Benefits of the power factor correction

- It reduces energy losses due to the Joule effect in transformers and cables.
- For existing installations, recover production capacity without adding / increasing sizing of the components already installed (transformers, cables).
- Avoid penalties applied to users with low power factor, by electric companies.
- For new installations, optimizes their sizing, depending on the actual planned production capacity.
- Reduces the voltage drop across lines (that can cause problems in the engine start or installations powered by long lines of MV with low short-circuit power).

**The amortization of the power factor correction system usually takes place in less than one year.**

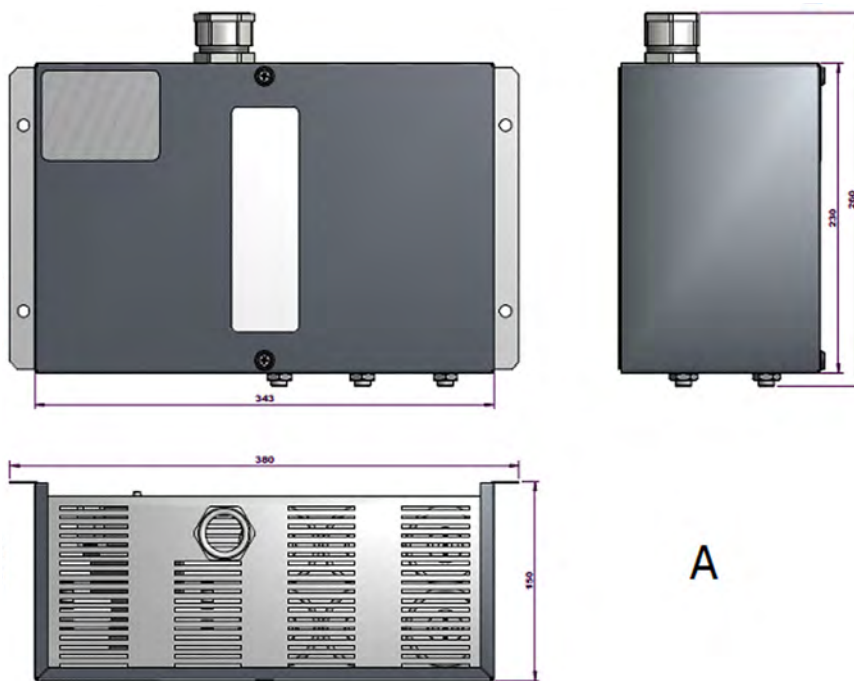
Fig.1



# AUTOMATIC CAPACITOR BANKS

## • HP10-PICOMATIC. 2 STEP AUTOMATIC BATTERIES

- Range of automatic 2-step batteries suitable for small installations.
- Rated voltage: three phase 400VAC/50Hz.
- Metallized polypropylene capacitor.
- Switching of capacitors: Contactors with damping resistors to limit capacitors inrush current.
- Rated voltage of the capacitor: 415V / Max. THDV en red: <12%.
- Maximum THDi in network: <3%
- Protection degree IP31.



Article	Code	Characteristics	Banks 400 V	Height (A)	Width (B)	Total depth (C)
PICOMATIC HP10 415V 5.00K 50HZ	501100130	Ured=400v, Unc=415v, Qn=5 KVAR	1,5-3	210	360	155
PICOMATIC HP10 415V 7.50K 50HZ	501100131	Ured=400v, Unc=415v, Qn=7,5 KVAR	2,25-4,5	210	360	155
PICOMATIC HP10 415V 10.00K 50HZ	501100132	Ured=400v, Unc=415v, Qn=10 KVAR	3-6	210	360	155
PICOMATIC HP10 415V 12.50K 50HZ	501100133	Ured=400v, Unc=415v, Qn=12,5 KVAR	3,73-7,42	210	360	155
PICOMATIC HP10 415V 15.00K 50HZ	501100134	Ured=400v, Unc=415v, Qn=15 KVAR	4,5-9	210	360	155

Note: Dimensions (AxBxC) in mm.

Let us help you with the configuration  
of your capacitor bank

Check with our technical department:

[info@kps-euman.com](mailto:info@kps-euman.com)

**+34.985.081.873**



# AUTOMATIC CAPACITOR BANKS

## • Power factor correction traditional system

- We develop solutions for power factor correction system automatic and fixed.
- This range is the solution for power factor compensation, with a robust equipment and an intuitive and simple programming.

## • Automatic traditional systems for power factor compensation system

- The technical characteristics of the automatic range are generally the following:
- Metallic enclosure. RAL 7035.
- Auxiliary transformer to separate power and auxiliary circuit parts (110V)
- Load-break switch with door interlock.
- Contactors with damping resistors to limit capacitors inrush current. Version with static insertion.
- Regulators for correcting power, efficiency and maximum protection.
- Single phase self-healing metallized polypropylene capacitor with  $U_n=415V$ , 460V and 550V rated voltage depends on the model.
- Rated frequency: 135 Hz, 180 Hz and 215Hz.
- The entire range is made according to the standards EN 60439, EN 61921 and EN 60831.



PICOMATIC



MICROMATIC



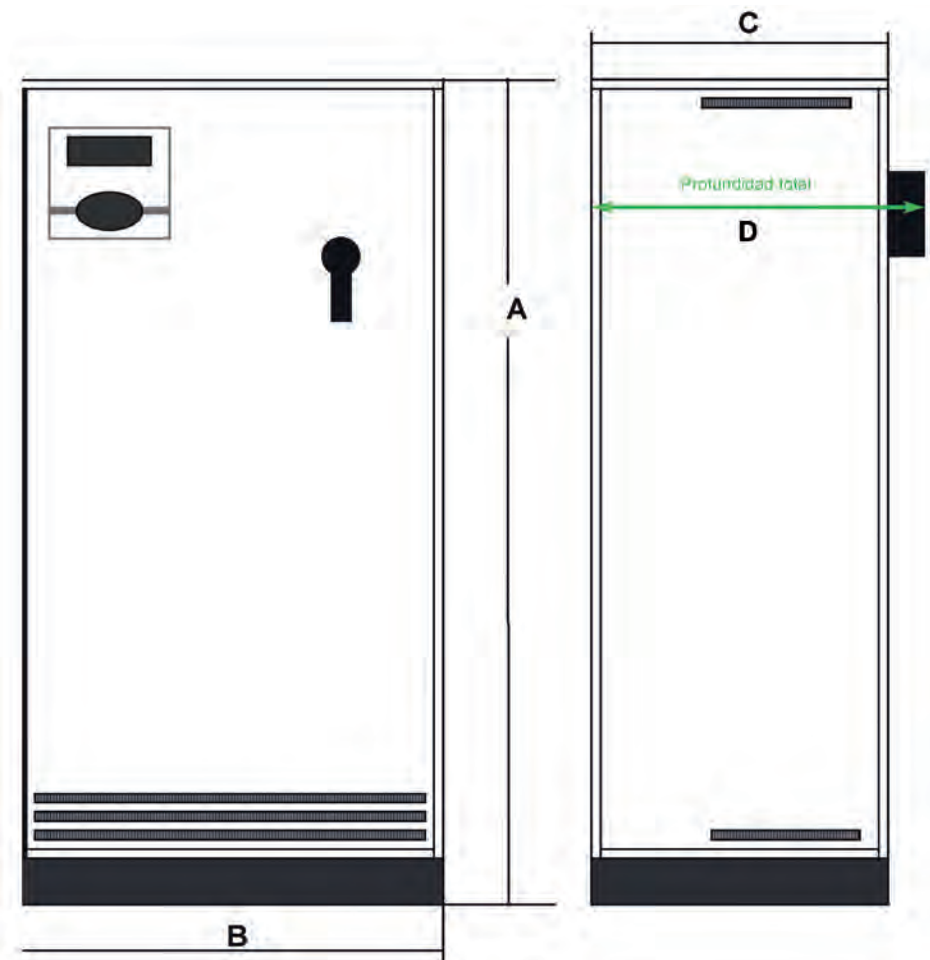
MINIMATIC



MIDIMATIC



MULTIMATIC



# AUTOMATIC CAPACITOR BANKS

## • HP 10

- Rated voltage: three phase 400VAC/50Hz.
- Load-break switch
- Metallized polypropylene capacitor.
- Switching of capacitors: Contactors with damping resistors to limit capacitors inrush current.
- Rated voltage of the capacitor: 415V / Max. THDV en red: <3%.
- Maximum THDi in network: 10%
- IP31 protection.
- Natural ventilation in models MICROMATIC and forced in the rest.



Article	Code	Characteristics	Banks 400 V	Height (A)	Width (B)	Cabinet depth (C)	Total depth (D)
MICROMATIC HP10 415V 14.00K 50HZ	501200000	Ured=400v, Unc=415v, Qn=14 KVAR	1.8-3.6-7.2	450	460	215	260
MICROMATIC HP10 415V 20.00K 50HZ	501200001	Ured=400v, Unc=415v, Qn=20 KVAR	3.6-7.2-7.2	450	460	215	260
MICROMATIC HP10 415V 22.00K 50HZ	501200002	Ured=400v, Unc=415v, Qn=22 KVAR	1.8-3.6-2x7.2	450	610	215	260
MICROMATIC HP10 415V 28.00K 50HZ	501200003	Ured=400v, Unc=415v, Qn=28 KVAR	3.6-7.2-14.4	450	610	215	260
MICROMATIC HP10 415V 30.00K 50HZ	501200004	Ured=400v, Unc=415v, Qn=30 KVAR	1.8-3.6-7.2-14.4	450	610	215	260
MICROMATIC HP10 415V 36.00K 50HZ	501200005	Ured=400v, Unc=415v, Qn=36 KVAR	3.6-2x7.2-14.4	450	610	215	260
MICROMATIC HP10 415V 38.00K 50HZ	501200006	Ured=400v, Unc=415v, Qn=38 KVAR	1.8-3.6-2x7.2-14.4	450	610	215	260
MICROMATIC HP10 415V 44.00K 50HZ	501200007	Ured=400v, Unc=415v, Qn=44 KVAR	3.6-7.2-2x14.4	450	610	215	260
MICROMATIC HP10 415V 52.00K 50HZ	501200008	Ured=400v, Unc=415v, Qn=52 KVAR	3.6-2x7.2-2x14.4	450	610	215	260
MICROMATIC HP10 415V 60.00K 50HZ	501200009	Ured=400v, Unc=415v, Qn=60 KVAR	3.6-7.2-3x14.4	450	610	215	260
MICROMATIC HP10 415V 72.00K 50HZ	501200010	Ured=400v, Unc=415v, Qn=72 KVAR	7.2-4x14.4	450	610	215	260
MINIMATIC HP10 415V 80KVAR 50HZ	501200100	Ured=400v, Unc=415v, Qn=80 KVAR	7.5-15-22.5-30	770	420	380	445
MINIMATIC HP10 415V 112KVAR 50HZ	501200101	Ured=400v, Unc=415v, Qn=112KVAR	7.5-15-22.5-2x30	990	420	380	445
MINIMATIC HP10 415V 136KVAR 50HZ	501200102	Ured=400v, Unc=415v, Qn=136 KVAR	7.5-15-22.5-30-52.5	990	420	380	445
MINIMATIC HP10 415V 160KVAR 50HZ	501200103	Ured=400v, Unc=415v, Qn=160 KVAR	15-30-45-60	990	420	380	445
MINIMATIC HP10 415V 192KVAR 50HZ	501200104	Ured=400v, Unc=415v, Qn=192 KVAR	15-30-60-75	1210	420	380	445
MINIMATIC HP10 415V 216KVAR 50HZ	501200105	Ured=400v, Unc=415v, Qn=216 KVAR	15-30-60-90	1210	420	380	445
MINIMATIC HP10 415V 240KVAR 50HZ	501200106	Ured=400v, Unc=415v, Qn=240 KVAR	15-30-60-120	1210	420	380	445
MIDIMATIC HP10 415V 320KVAR 50HZ	501200201	Ured=400v, Unc=415v, Qn=320 KVAR	2x30-2x60-120	2000	500	500	545
MULTIMATIC HP10 415V 320KVAR 50HZ	501200250	Ured=400v, Unc=415v, Qn=320 KVAR	30-30-4x60	1315	600	625	670
MULTIMATIC HP10 415V 400KVAR 50HZ	501200251	Ured=400v, Unc=415v, Qn=400 KVAR	37.5-37.5-4x75	1565	600	625	670
MULTIMATIC HP10 415V 480KVAR 50HZ	501200252	Ured=400v, Unc=415v, Qn=480 KVAR	45-45-4x90	1565	600	625	670
MULTIMATIC HP10 415V 560KVAR 50HZ	501200253	Ured=400v, Unc=415v, Qn=560 KVAR	52.5-52.5-4x105	1815	600	625	670
MULTIMATIC HP10 415V 640KVAR 50HZ	501200254	Ured=400v, Unc=415v, Qn=640 KVAR	60-60-4x120	1315	1200	620	665
MULTIMATIC HP10 415V 720KVAR 50HZ	501200255	Ured=400v, Unc=415v, Qn=720 KVAR	67.5-67.5-4x135	1565	1200	620	665
MULTIMATIC HP10 415V 800KVAR 50HZ	501200256	Ured=400v, Unc=415v, Qn=800 KVAR	75-75-4x150	1565	1200	620	665
MULTIMATIC HP10 415V 880KVAR 50HZ	501200257	Ured=400v, Unc=415v, Qn=880 KVAR	82.5-82.5-4x165	1565	1200	620	665
MULTIMATIC HP10 415V 960KVAR 50HZ	501200258	Ured=400v, Unc=415v, Qn=960 KVAR	90-90-4x180	1565	1200	620	665
MULTIMATIC HP10 415V 1.040KVAR 50HZ	501200259	Ured=400v, Unc=415v, Qn=1.040 KVAR	97.5-97.5-4x195	1815	1200	620	665
MULTIMATIC HP10 415V 1.120KVAR 50HZ	501200260	Ured=400v, Unc=415v, Qn=1.120 KVAR	105-105-4x210	1815	1200	620	665

Note: Dimensions (AxBxCxD) in mm. IP54 versions. Consult versions with reinforced capacitors. Consult versions with other powers or distribution steps.

# AUTOMATIC CAPACITOR BANKS WITH FILTER

## • FH 20

- Rated voltage: three phase 400VAC/50Hz.
- Load-break switch.
- Metallized polypropylene capacitor.
- Switching of capacitors: Contactors with damping resistors to limit capacitors inrush current.
- Capacitor rated voltage: 550V.
- Tuning frequency: 180Hz / Max. THDV in network:  $3% < \text{THDV} < 6%$ .
- Maximum THDi in network: 60%.
- IP31 Protection.
- Natural ventilation in models MICROMATIC and forced in the rest.



Article	Code	Characteristics	Banks 400 V	Height (A)	Width (B)	Cabinet depth (C)	Total depth (D)
MINIMATIC FH20 400V 10KVAR 50HZ	501200124	Ured=400v, Unc=550v, Qred=10 KVAR, Resonance Frequency 180Hz	2x2.5-5	990	420	380	445
MINIMATIC FH20 400V 20KVAR 50HZ	501200125	Ured=400v, Unc=550v, Qred=20 KVAR, Resonance Frequency 180Hz	2x2.5-5-10	990	420	380	445
MINIMATIC FH20 400V 30KVAR 50HZ	501200126	Ured=400v, Unc=550v, Qred=30 KVAR, Resonance Frequency 180Hz	2x5-2x10	990	420	380	445
MINIMATIC FH20 400V 40KVAR 50HZ	501200127	Ured=400v, Unc=550v, Qred=40 KVAR, Resonance Frequency 180Hz	2x5-10-20	1210	420	380	445
MINIMATIC FH20 400V 50KVAR 50HZ	501200128	Ured=400v, Unc=550v, Qred=50 KVAR, Resonance Frequency 180Hz	2x5-2x10-20	1210	420	380	445
MINIMATIC FH20 400V 60KVAR 50HZ	501200129	Ured=400v, Unc=550v, Qred=60 KVAR, Resonance Frequency 180Hz	2x10-2x20	1210	420	380	445
MINIMATIC FH20 400V 70KVAR 50HZ	501200130	Ured=400v, Unc=550v, Qred=70 KVAR, Resonance Frequency 180Hz	10-3x20	1430	420	380	445
MINIMATIC FH20 400V 80KVAR 50HZ	501200131	Ured=400v, Unc=550v, Qred=80 KVAR, Resonance Frequency 180Hz	2x10-3x20	1430	420	380	445
MULTIMATIC FH20 400V 100KVAR 50HZ	501200350	Ured=400v, Unc=550v, Qred=100 KVAR, Resonance Frequency 180Hz	20-2x40	1315	600	625	670
MULTIMATIC FH20 400V 140KVAR 50HZ	501200351	Ured=400v, Unc=550v, Qred=140 KVAR, Resonance Frequency 180Hz	20-40-80	1315	600	625	670
MULTIMATIC FH20 400V 180KVAR 50HZ	501200352	Ured=400v, Unc=550v, Qred=180 KVAR, Resonance Frequency 180Hz	20-2x40-80	1565	600	625	670
MULTIMATIC FH20 400V 220KVAR 50HZ	501200353	Ured=400v, Unc=550v, Qred=220 KVAR, Resonance Frequency 180Hz	20-40-2x80	1565	600	625	670
MULTIMATIC FH20 400V 260KVAR 50HZ	501200354	Ured=400v, Unc=550v, Qred=260 KVAR, Resonance Frequency 180Hz	20-2x40-2x80	1815	600	625	670
MULTIMATIC FH20 400V 300KVAR 50HZ	501200355	Ured=400v, Unc=550v, Qred=300 KVAR, Resonance Frequency 180Hz	20-40-3x80	1815	600	625	670
MULTIMATIC FH20 400V 340KVAR 50HZ	501200356	Ured=400v, Unc=550v, Qred=340 KVAR, Resonance Frequency 180Hz	20-2x40-3x80	2065	600	625	670
MULTIMATIC FH20 400V 380KVAR 50HZ	501200357	Ured=400v, Unc=550v, Qred=380 KVAR, Resonance Frequency 180Hz	20-40-4x80	2065	600	625	670
MULTIMATIC FH20 400V 420KVAR 50HZ	501200358	Ured=400v, Unc=550v, Qred=420 KVAR, Resonance Frequency 180Hz	20-2x40-2x80-160	2315	600	625	670
MULTIMATIC FH20 400V 460KVAR 50HZ	501200359	Ured=400v, Unc=550v, Qred=460 KVAR, Resonance Frequency 180Hz	20-40-3x80-1x160	2315	600	625	670
MULTIMATIC FH20 400V 500KVAR 50HZ	501200360	Ured=400v, Unc=550v, Qred=500 KVAR, Resonance Frequency 180Hz	20-2x40-80-2x160	1815	1200	620	665
MULTIMATIC FH20 400V 560KVAR 50HZ	501200361	Ured=400v, Unc=550v, Qred=560 KVAR, Resonance Frequency 180Hz	80-3x160	1815	1200	620	665
MULTIMATIC FH20 400V 640KVAR 50HZ	501200362	Ured=400v, Unc=550v, Qred=640 KVAR, Resonance Frequency 180Hz	2x80-3x160	1815	1200	620	665
MULTIMATIC FH20 400V 720KVAR 50HZ	501200363	Ured=400v, Unc=550v, Qred=720 KVAR, Resonance Frequency 180Hz	80-4x160	2065	1200	625	670
MULTIMATIC FH20 400V 800KVAR 50HZ	501200364	Ured=400v, Unc=550v, Qred=800 KVAR, Resonance Frequency 180Hz	2x80-4x160	2065	1200	625	670
MULTIMATIC FH20 400V 880KVAR 50HZ	501200365	Ured=400v, Unc=550v, Qred=880 KVAR, Resonance Frequency 180Hz	80-5x160	2315	1200	625	670
MULTIMATIC FH20 400V 960KVAR 50HZ	501200366	Ured=400v, Unc=550v, Qred=960 KVAR, Resonance Frequency 180Hz	2x80-3x160-1x320	2315	1200	625	670

Note: Dimensions (AxBxCxD) in mm. IP54 versions. Consult versions with reinforced capacitors. Consult versions with other powers or distribution steps.

# AUTOMATIC CAPACITOR BANKS WITH FILTER

## • FH 30

- Rated voltage: three phase 400VAC/50Hz.
- Load-break switch.
- Metallized polypropylene capacitor.
- Switching of capacitors: Contactors with damping resistors to limit capacitors inrush current.
- Capacitor rated voltage: 550V.
- Tuning frequency: 135Hz / Max. / Maximum THDi in network: 60%.
- IP31 Protection.
- Natural ventilation in models MICROMATIC and forced in the rest.



Article	Code	Characteristics	Banks 400 V	Height (A)	Width (B)	Cabinet depth (C)	Total depth (D)
MINIMATIC FH30 400V 10KVAR 50HZ	501200132	Ured=400v, Unc=550v, Qred=10 KVAR, Resonance Frequency 135Hz	2x2.5-5	990	420	380	445
MINIMATIC FH30 400V 20KVAR 50HZ	501200133	Ured=400v, Unc=550v, Qred=20 KVAR, Resonance Frequency 135Hz	2x2.5-5-10	990	420	380	445
MINIMATIC FH30 400V 30KVAR 50HZ	501200134	Ured=400v, Unc=550v, Qred=30 KVAR, Resonance Frequency 135Hz	2x5-2x10	990	420	380	445
MINIMATIC FH30 400V 40KVAR 50HZ	501200135	Ured=400v, Unc=550v, Qred=40 KVAR, Resonance Frequency 135Hz	2x5-10-20	1210	420	380	445
MINIMATIC FH30 400V 50KVAR 50HZ	501200136	Ured=400v, Unc=550v, Qred=50 KVAR, Resonance Frequency 135Hz	2x5-2x10-20	1430	420	380	445
MINIMATIC FH30 400V 60KVAR 50HZ	501200137	Ured=400v, Unc=550v, Qred=60 KVAR, Resonance Frequency 135Hz	2x10-2x20	1430	420	380	445
MINIMATIC FH30 400V 70KVAR 50HZ	501200138	Ured=400v, Unc=550v, Qred=70 KVAR, Resonance Frequency 135Hz	10-3x20	1430	420	380	445
MULTIMATIC FH30 400V 100KVAR 50HZ	501200367	Ured=400v, Unc=550v, Qred=100 KVAR, Resonance Frequency 135Hz	20-2x40	1315	600	625	670
MULTIMATIC FH30 400V 140KVAR 50HZ	501200368	Ured=400v, Unc=550v, Qred=140 KVAR, Resonance Frequency 135Hz	20-40-80	1315	600	625	670
MULTIMATIC FH30 400V 180KVAR 50HZ	501200369	Ured=400v, Unc=550v, Qred=180 KVAR, Resonance Frequency 135Hz	20-2x40-80	1565	600	625	670
MULTIMATIC FH30 400V 220KVAR 50HZ	501200370	Ured=400v, Unc=550v, Qred=220 KVAR, Resonance Frequency 135Hz	20-40-2x80	1565	600	625	670
MULTIMATIC FH30 400V 260KVAR 50HZ	501200371	Ured=400v, Unc=550v, Qred=260 KVAR, Resonance Frequency 135Hz	20-2x40-2x80	1815	600	625	670
MULTIMATIC FH30 400V 300KVAR 50HZ	501200372	Ured=400v, Unc=550v, Qred=300 KVAR, Resonance Frequency 135Hz	20-40-3x80	1815	600	625	670
MULTIMATIC FH30 400V 340KVAR 50HZ	501200373	Ured=400v, Unc=550v, Qred=340 KVAR, Resonance Frequency 135Hz	20-2x40-3x80	2065	600	625	670
MULTIMATIC FH30 400V 380KVAR 50HZ	501200374	Ured=400v, Unc=550v, Qred=380 KVAR, Resonance Frequency 135Hz	20-40-4x80	2065	600	625	670
MULTIMATIC FH30 400V 420KVAR 50HZ	501200375	Ured=400v, Unc=550v, Qred=420 KVAR, Resonance Frequency 135Hz	20-2x40-2x80-160	2315	600	625	670
MULTIMATIC FH30 400V 460KVAR 50HZ	501200376	Ured=400v, Unc=550v, Qred=460 KVAR, Resonance Frequency 135Hz	20-40-3x80-1x160	2315	600	625	670
MULTIMATIC FH30 400V 500KVAR 50HZ	501200377	Ured=400v, Unc=550v, Qred=500 KVAR, Resonance Frequency 135Hz	20-2x40-80-2x160	1815	1200	620	665
MULTIMATIC FH30 400V 560KVAR 50HZ	501200378	Ured=400v, Unc=550v, Qred=560 KVAR, Resonance Frequency 135Hz	80-3x160	1815	1200	620	665
MULTIMATIC FH30 400V 640KVAR 50HZ	501200379	Ured=400v, Unc=550v, Qred=640 KVAR, Resonance Frequency 135Hz	2x80-3x160	1815	1200	620	665
MULTIMATIC FH30 400V 720KVAR 50HZ	501200380	Ured=400v, Unc=550v, Qred=720 KVAR, Resonance Frequency 135Hz	80-4x160	2065	1200	625	670
MULTIMATIC FH30 400V 800KVAR 50HZ	501200381	Ured=400v, Unc=550v, Qred=800 KVAR, Resonance Frequency 135Hz	2x80-4x160	2065	1200	625	670
MULTIMATIC FH30 400V 880KVAR 50HZ	501200382	Ured=400v, Unc=550v, Qred=880 KVAR, Resonance Frequency 135Hz	80-5x160	2315	1200	625	670
MULTIMATIC FH30 400V 960KVAR 50HZ	501200383	Ured=400v, Unc=550v, Qred=880 KVAR, Resonance Frequency 135Hz	2x80-3x160-1x320	2315	1200	625	670

Note: Dimensions (AxBxCxD) in mm. IP54 versions. Consult versions with reinforced capacitors. Consult versions with other powers or distribution steps.

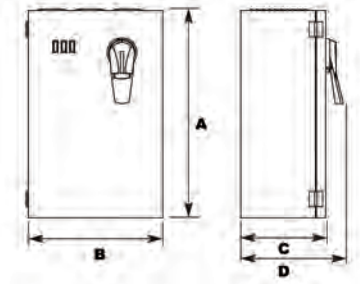
# FIXED CAPACITOR BANKS

## • MICROfix

- Fixed systems for power factor compensation for three phase networks in metallic box.
- IP3X protection degree.
- Load-break switch and light voltage signaling in the control panel.
- Powers: until 60kvar 400V.

Main characteristics:

- Metallic enclosure painted with epossidic dust paint, colour RAL 7035.
- Load-break switch with door interlock..
- N07V-K self-extinguish cable according to CEI 20/22-II standards.
- Single phase self-healing metallized polypropylene capacitors with UN=400V rated voltage, or UNc=460V, preferable to places where overvoltages may take place, such as transformers or networks.
- Internal protection fuse.
- Maximum THDi in network: 7% for SP20 range.
- Maximum THDi in network: 15% for RP10 range.



Article	Code
MICROFIX SP20 400V 5.00K 50HZ	501100100
MICROFIX SP20 400V 10.00K 50HZ	501100101
MICROFIX SP20 400V 15.00K 50HZ	501100102
MICROFIX SP20 400V 20.00K 50HZ	501100103
MICROFIX SP20 400V 25.00K 50HZ	501100104
MICROFIX SP20 400V 30.00K 50HZ	501100105
MICROFIX SP20 400V 40.00K 50HZ	501100106
MICROFIX SP20 400V 50.00K 50HZ	501100107
MICROFIX SP20 400V 60.00K 50HZ	501100108

Article	Code
MICROFIX RP10 460V 5.00K 50HZ	501100109
MICROFIX RP10 460V 10.00K 50HZ	501100110
MICROFIX RP10 460V 15.00K 50HZ	501100111
MICROFIX RP10 460V 20.00K 50HZ	501100112
MICROFIX RP10 460V 25.00K 50HZ	501100113
MICROFIX RP10 460V 30.00K 50HZ	501100114
MICROFIX RP10 460V 40.00K 50HZ	501100115
MICROFIX RP10 460V 50.00K 50HZ	501100116
MICROFIX RP10 460V 60.00K 50HZ	501100117



# POWER FACTOR CORRECTION

## • Three phase capacitor with connector, 230/400/440/480V, 50/60Hz

### Characteristics and utility

- Three phase capacitor for indoor use
- Delta connection
- Discharge resistors incorporated
- Reactive power correction
- Reinforced design to support over voltage
- Dry type
- Connector type terminal

### Standard

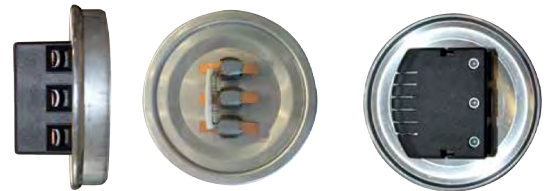
- IEC 60831-1/2
- UNE-EN 60831-1/2

### Safety

- Overpressure disconnection system
- Protection by internal fuses

### Construction and materials

- Low losses metallized self-healing polypropylene film, high density, high temperature and greater dielectric resistance Volts /  $\mu$ .
- Polyurethane self-extinguishing resin V0, developed under standard UL94 and with certification number 20141031-E470994
- Aluminium case with bottom fixing M12x16



50Hz		60Hz	
Article	Code	Article	Code
KPS-TPC 230V, 50 Hz 2,5kVAr	900950029	KPS-TPC 230V, 60 Hz 2,5kVAr	900950064
KPS-TPC 230V, 50 Hz 5kVAr	900950030	KPS-TPC 230V, 60 Hz 5kVAr	900950065
KPS-TPC 230V, 50 Hz 7,5kVAr	900950031	KPS-TPC 230V, 60 Hz 7,5kVAr	900950066
KPS-TPC 230V, 50 Hz 10kVAr	900950032	KPS-TPC 230V, 60 Hz 10kVAr	900950067
KPS-TPC 230V, 50 Hz 12,5kVAr	900950033	KPS-TPC 230V, 60 Hz 12,5kVAr	900950068
KPS-TPC 230V, 50 Hz 15kVAr	900950034	KPS-TPC 230V, 60 Hz 15kVAr	900950069
KPS-TPC 230V, 50 Hz 20kVAr	900950035	KPS-TPC 230V, 60 Hz 20kVAr	900950070
KPS-TPC 400V, 50 Hz 2,5kVAr	900950036	KPS-TPC 400V, 60 Hz 2,5kVAr	900950071
KPS-TPC 400V, 50 Hz 5kVAr	900950037	KPS-TPC 400V, 60 Hz 5kVAr	900950072
KPS-TPC 400V, 50 Hz 10kVAr	900950038	KPS-TPC 400V, 60 Hz 10kVAr	900950073
KPS-TPC 400V, 50 Hz 12,5kVAr	900950039	KPS-TPC 400V, 60 Hz 12,5kVAr	900950074
KPS-TPC 400V, 50 Hz 15kVAr	900950040	KPS-TPC 400V, 60 Hz 15kVAr	900950075
KPS-TPC 400V, 50 Hz 20kVAr	900950041	KPS-TPC 400V, 60 Hz 20kVAr	900950076
KPS-TPC 400V, 50 Hz 25kVAr	900950042	KPS-TPC 400V, 60 Hz 25kVAr	900950077
KPS-TPC 400V, 50 Hz 30kVAr	900950043	KPS-TPC 400V, 60 Hz 30kVAr	900950078
KPS-TPC 440V, 50 Hz 2,5kVAr	900950044	KPS-TPC 440V, 60 Hz 2,5kVAr	900950079
KPS-TPC 440V, 50 Hz 5kVAr	900950045	KPS-TPC 440V, 60 Hz 5kVAr	900950080
KPS-TPC 440V, 50 Hz 10kVAr	900950046	KPS-TPC 440V, 60 Hz 10kVAr	900950081
KPS-TPC 440V, 50 Hz 12,5kVAr	900950047	KPS-TPC 440V, 60 Hz 12,5kVAr	900950082
KPS-TPC 440V, 50 Hz 15kVAr	900950048	KPS-TPC 440V, 60 Hz 15kVAr	900950083
KPS-TPC 440V, 50 Hz 20kVAr	900950049	KPS-TPC 440V, 60 Hz 20kVAr	900950084
KPS-TPC 440V, 50 Hz 25kVAr	900950050	KPS-TPC 440V, 60 Hz 25kVAr	900950085
KPS-TPC 440V, 50 Hz 30kVAr	900950051	KPS-TPC 440V, 60 Hz 30kVAr	900950086
KPS-TPC 440V, 50 Hz 40kVAr	900950052	KPS-TPC 440V, 60 Hz 40kVAr	900950087
KPS-TPC 440V, 50 Hz 50kVAr	900950053	KPS-TPC 440V, 60 Hz 50kVAr	900950088
KPS-TPC 480V, 50 Hz 2,5kVAr	900950054	KPS-TPC 480V, 60 Hz 2,5kVAr	900950089
KPS-TPC 480V, 50 Hz 5kVAr	900950055	KPS-TPC 480V, 60 Hz 5kVAr	900950090
KPS-TPC 480V, 50 Hz 10kVAr	900950056	KPS-TPC 480V, 60 Hz 10kVAr	900950091
KPS-TPC 480V, 50 Hz 12,5kVAr	900950057	KPS-TPC 480V, 60 Hz 12,5kVAr	900950092
KPS-TPC 480V, 50 Hz 15kVAr	900950058	KPS-TPC 480V, 60 Hz 15kVAr	900950093
KPS-TPC 480V, 50 Hz 20kVAr	900950059	KPS-TPC 480V, 60 Hz 20kVAr	900950094
KPS-TPC 480V, 50 Hz 25kVAr	900950060	KPS-TPC 480V, 60 Hz 25kVAr	900950095
KPS-TPC 480V, 50 Hz 30kVAr	900950061	KPS-TPC 480V, 60 Hz 30kVAr	900950096
KPS-TPC 480V, 50 Hz 40kVAr	900950062	KPS-TPC 480V, 60 Hz 40kVAr	900950097
KPS-TPC 480V, 50 Hz 50kVAr	900950063	KPS-TPC 480V, 60 Hz 50kVAr	900950098

### Technical Characteristics

Capacitance tolerance	-5% +10%
Frequency	50Hz (60 Hz upon request)
Temperature range	-25°C +55°C
Dielectric losses	≤0.2 W/KVAr
Total losses	≤0.45 W/KVAr (w/o resistance)
Over voltage	1.15xUn (up to 8h/day)
Over current	1.50xIn (including overvoltage effects and capacity tolerances)
Max. THD in voltage	3%
Max. THD in current	30%
Discharge resistance	Incorporated
Connection	Delta
Voltage test between terminals	2.15 xUn 2 sec.
Voltage test between terminals and case	3kV for 10 sec.AC
Inrush current	Up to 200 x In
Protection	IP-20
Humidity	Max. 95%
Life Expectancy	130 000 h (Temp. type C) 120 000 h (Temp. type D)
Altitude	Max. 2000 a. s. l.
Mounting position	Universal

# POWER FACTOR CORRECTION

## • Harmonic blocking reactors

### Technical characteristics

Applicable standards	CEI-EN 60289 IEC 60289
Rated voltages	230...700V
Rated frequencies	50Hz
Tolerance of inductance	±5%
Linearity	$I \parallel n = 1.6...2.0 \text{ In}$ (mean value across three phases)
Insulation (winding-core)	3kV
Temperature class	F (155°C)
Maximum Ambient Temperature	40°C
Protection class	IP00 indoor mounting
Humidity	95%
Cooling	natural
Design	Three phase, iron core double air gap
Winding material	Aluminium foil / copper wires
Impregnation	Polyester resin, class H
Terminals	Terminal blocks, or cable lugs
Temperature Switch	All reactors are provided with a separate screw terminal for the temperature switch (opening switch) which is located inside every coil
Switching temperature	140°C
Voltage	250VAC (<5A)
Tolerance	±5K



Article	Code	Qc at 400V (kvar)	L (mH)	Irms (A)	Material	Dimensions (AxBxC) (mm)	Weight (Kg)	Qc at rated voltage (kvar)	Capacitor rated voltage (V)	Capacitance (F)
KPS-HBR 5Kvar 189Hz 8,3mH 7%	501990120	5	8,3	8	copper	205x170x65	6,0	7,5	450	112.5
KPS-HBR 10Kvar 189Hz 4,2mH 7%	501990121	10	4,2	17	copper	205x181x79	7,7	12,5	450	196
KPS-HBR 12,5Kvar 189Hz 3,465mH 7%	501990122	12,5	3,03	21	copper	180x180x150	11	15	450	236
KPS-HBR 20Kvar 189Hz 1,73mH 7%	501990123	20	1,73	40	aluminium	320x220x120	17	25	450	393
KPS-HBR 25Kvar 189Hz 1,572mH 7%	501990124	25	1,572	39,5	aluminium	320x220x120	17	30	450	471
KPS-HBR 40Kvar 189Hz 0,865mH 7%	501990125	40	0,865	80	aluminium	320x220x145	26	50	450	786
KPS-HBR 50Kvar 189Hz 0,865mH 7%	501990119	50	0,786	79	aluminium	320x220x140	26	60	450	942
KPS-HBR 75Kvar 189Hz 0,523mH 7%	501990126	75	0,523	133	aluminium	380x215x170	38	90	450	-

# POWER FACTOR CORRECTION

## • Power factor controllers

- Allow an optimal control of the steps of automatic batteries.
- Versions with outputs for relay for control of contactors, and versions with digital outputs for control of thyristors.
- Communication ports allow its telemanagement.
- Different alarms for keeping the battery controlled at each time.



Article	Code	Characteristics
KPS-PFC2	501990501	2 relay outputs
KPS-PFC5	501990502	5 relay outputs
KPS-PFC7	501990503	7 relay outputs
KPS-PFC8	501990504	8 relay outputs
KPS-PFC12	501990505	12 relay outputs

See all our options on components  
(Capacitors, regulators, protections ...)

With our technical department:

[info@kps-euman.com](mailto:info@kps-euman.com)

**+34.985.081.873**





## MEASURING INSTRUMENTS



DIGITAL CLAMP METERS  
DIGITAL MULTIMETERS  
VOLTAGE DETECTORS  
EARTH RESISTANCE TESTERS  
INSULATION TESTERS  
CABLE TESTERS  
SMD TESTERS  
ENVIRONMENTAL METERS  
TEMPERATURE METERS  
INDUSTRIAL METERS  
DISANCE METERS  
CABLES, TEST LEADS & THERMOCOUPLES  
ELECTRICAL SAFETY TESTERS  
PV SYSTEMS TESTERS  
SWITCHBOARDS/MACHINE TESTERS  
POWER QUALITY ANALYZERS  
HV METERS AND TESTERS

 **KPS**

# DIGITAL CLAMP METERS

## • KPS-PA420 MINI Mini digital clamp meter

- Display: 2000 counts
- Diode test: 4.5V
- Continuity Buzzer: <70Ω
- Data Hold
- Low battery display
- CAT III 600V according to EN 61010

**JAW SIZE**  
Ø28mm/1.1"

**VOLTAGE** DC 600 V  
AC 600 V

**Current**  
AC 400A

Article	Code	EAN 13
KPS-PA420 MINI	602150029	8435394747194



## • KPS-PA20 MINI Mini digital clamp meter

- Mini digital clamp meter.
- 4000 counts.
- Resistance, frequency, duty cycle and capacitance measurement.
- Temperature measurement from -20°C to +750°C.
- Autoranging.
- Diode check and continuity buzzer
- Data hold and maximum value
- Auto-off.
- Display backlight.
- CAT.III 600V according to EN61010.

**JAW SIZE**  
Ø26mm / 1.0"

**VOLTAGE** DC 600V  
AC 600V

**Current**  
AC 600A

Article	Code	EAN 13
KPS-PA20 MINI	602150017	8435394710150



## • KPS-PA430 MINI Mini digital clamp meter

- Screen: 4000 counts
- Resistance, capacitance and frequency
- Continuity buzzer and diode test
- MAX/MIN values. Relative measurements
- Data hold
- Autoranging, auto-off, work light and low battery display
- CAT.III 600V according to EN 61010

**JAW SIZE**  
Ø26mm / 1.0"

**VOLTAGE** DC 600V  
AC 600V

**Current**  
AC/DC 400A

Article	Code	EAN 13
KPS-PA430 MINI	602150035	8435394747651



# DIGITAL CLAMP METERS

## • KPS-PA900 MINI Mini digital clamp meter

- Display Counts: 6000. Dual reading
- Auto Range
- No-contact voltage measurement.
- True RMS. Continuity: <math><40\Omega</math>
- Max/Min. Data A-Hold
- Auto Power Off. Low Bat. Display
- Display Backlight. Worklight
- CAT III 600V according to EN 61010

**SMART**  
Automatically detects  
what you are measuring!

<b>JAW SIZE</b> Ø26mm / 1.1"	<b>VOLTAGE</b> 600 VAC/DC	<b>Current</b> 600A AC
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Article	Code	EAN 13
KPS-PA900 MINI	602150032	8435394747224



## • KPS-PA440 Digital clamp meter

- Auto range. Power overload protection
- Maximum voltage between circuit and ground: 1000V AC/DC
- Display: 6000 counts.
- Auto Ranging. Auto Power Off
- Non-Contact Voltage Detector. Diode test: 3.2V
- Continuity Buzzer: <math><50\Omega</math>
- Data Hold. Work Light
- Display Backlight
- Low Battery Display
- CAT.III 6000V according to EN 61010

<b>JAW SIZE</b> Ø12mm/0.5"	<b>VOLTAGE</b> DC 600 V AC 600 V	<b>Current</b> DC 1000 $\mu$ A AC 200A
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Article	Code	EAN 13
KPS-PA440	602150033	8435394747231



### KPS Instruments Services

Added-value services to our Measuring Instruments Solutions:

- »» Our own labs
- »» Repair and calibration of instruments
- »» Technical support
- »» Training

For more info, please contact us:  
[info@kps-euman.com](mailto:info@kps-euman.com) | +34 985 081 873

**España:**  
[info@kps-soluciones.es](mailto:info@kps-soluciones.es)  
+34 985 081 870

**Portugal:**  
[info@kps.pt](mailto:info@kps.pt)  
+351 932 750 007

**México:**  
[info@kps-soluciones.com.mx](mailto:info@kps-soluciones.com.mx)  
+52 55 5368 0577

# DIGITAL CLAMP METERS

## • KPS-PA10 Digital clamp meter

- Digital clamp meter
- 2000 counts.
- Resistance measurement.
- Diode check and continuity test.
- 2MΩ
- Data hold.
- Display backlight.
- CAT II 1.000 V + CAT. III 600V according to EN 61010.

<b>JAW SIZE</b> Ø42mm / 1.7"	<b>VOLTAGE</b> DC 1000V AC 750V	<b>Current</b> AC 1000A
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Article	Code	EAN 13
KPS-PA10	602150006	8435394710143



## • KPS-PA700 Digital clamp meter

- Display: 6600 counts.
- Auto Ranging. Auto Power Off.
- Relative Measurement
- Diode test.
- Continuity Buzzer
- Max/Min. Data Hold.
- Display Backlight
- True Root Mean Square.
- Non-Contact Voltage Detector
- CAT. III 1000V + CAT IV 600V according to EN 61010

<b>JAW SIZE</b> Ø40mm/1.6"	<b>VOLTAGE</b> DC 1000 V AC 750 V	<b>Current</b> AC 1000 A
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Article	Code	EAN 13
KPS-PA700	602150030	8435394747200



## • KPS-PA720 Digital clamp meter

- Display: 6000 counts. Auto Ranging. Auto Power Off.
- Relative Measurement. Diode test. Continuity Buzzer. MAX/MIN. Data Hold
- Display Backlight. Work Light.
- True Root Mean Square.
- Non-Contact Voltage Detector
- AC/DC Inrush Current Measurement
- CAT. III 600V + CAT. IV 1000V according to EN 61010

<b>JAW SIZE</b> Ø40mm/1.6"	<b>VOLTAGE</b> DC 1000V AC 750V	<b>Current</b> DC 1000A AC 1000A
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Article	Code	EAN 13
KPS-PA720	602150031	8435394747217





# DIGITAL CLAMP METERS

## • KPS-PF10 Leakage clamp meter

- Three manually selectable scales: 2mA/20mA/60A.
- Minimum resolution of 0,001mA
- Data hold
- Low battery display
- 2000 counts
- CAT.III 600V according to EN61010.

Article	Code	EAN 13
KPS-PF10	602150020	8435394710181

**JAW SIZE**  
 Ø31mm / 1.2"

**Current**  
 AC 60A



## • KPS-PF740 Leakage clamp meter

- Voltage, current, resistance, capacitance and temperature measurement
- Auto Ranging
- Auto Power Off
- Display Backlight
- Low Battery Display
- Low pass filter function
- TRMS
- CAT. III 600V according to EN 61010

**JAW SIZE**  
 Ø32mm/1.2"

**VOLTAGE** DC 600V  
 AC 600V

**Current**  
 AC 150 A

Article	Code	EAN 13
KPS-PF740	602150034	8435394747248



## • KPS-PF50 Leakage clamp meter

- Autoranging
- Ranges: 40mA/400mA/4 A/ 40 A/ 400 A/600 A.
- 40MΩ, 2kHz, 100μF
- 4000 counts.
- Minimum resolution of 0,01mA.
- Low pass filter function, block frequency of 1kHz
- Resistance, frequency, duty cycle and capacitance measurement
- Temperature measurement from -20°C up to 1.000°C
- Relative measurements
- Diode check and continuity test
- Data hold
- Low battery display and AutoOFF
- Display backlight
- CAT.III 600V under EN61010

**JAW SIZE**  
 Ø32mm / 1.2"



**VOLTAGE** DC 600V  
 AC 600V

**Current**  
 AC 600A

Article	Code	EAN 13
KPS-PF50	602150019	8435394710174



# DIGITAL CLAMP METERS

FUNCTIONS	 KPS-PA420 MINI Digital mini clamp meter	 KPS-PA20 MINI Digital mini clamp meter	 KPS-PA430 MINI Digital mini clamp meter	 KPS-PA900 MINI Digital mini clamp meter	 KPS-PA440 Digital clamp meter
Code	602150029	602150017	602150035	602150032	602150033
Altern current, up to	400A	600A	400A	600A	200A
Direct current, up to	-	-	400A	-	1000µA
Altern voltage, up to	600V	600V	600V	600V	600V
Direct voltage, up to	600V	600V	600V	600V	600V
Counts	2000	4000	4000	6000	6000
Resistance, up to	2kΩ	40MΩ	40MΩ	10MΩ	60MΩ
Frequency, up to	-	10kHz	1kHz	3kHz	60MHz
Temperature, up to	-	750°C	-	-	400°C
Continuity test	√	√	√	√	√
Diode ckeck	√	√	√	-	√
Capacity, up to	-	100µF	-	-	60mF
No-contact voltage detection	-	-	-	-	√
Inrush current	-	-	-	-	-
Leakage current with harmonic filter	-	-	-	-	-
True RMS measurement	-	-	-	-	-
Data hold	√	√	√	√	√
Relative measurements	-	-	√	-	-
Maximum/minimum values	-	-	√	√	-
Autoranging	-	√	√	√	√
Jaw size	28 mm	26mm with lighting	26 mm with lighting	26 mm with lighting	12 mm with lighting
AutoOFF	-	√	√	√	√
Backlight display	-	√	√	√	√
Low battery display	√	√	√	√	√
Category under EN61010	CAT. III 600V	CAT.III 600V	CAT.III 600V	CAT. III 600V	CAT. III 600V

FUNCTIONS	 KPS-PA10 Digital clamp meter	 KPS-PA700 Digital clamp meter	 KPS-PA720 Digital clamp meter	 KPS-PF10 Leakage clamp meter	 KPS-PF50 Leakage clamp meter	 KPS-PF740 Leakage clamp meter
Code	602150006	602150030	602150031	602150020	602150019	602150034
Altern current, up to	1000A	1000A	1000A	60A	600A	150A
Direct current, up to	-	-	1000A	-	-	-
Altern voltage, up to	750V	750V	750V	-	600V	600V
Direct voltage, up to	1000V	1000V	1000V	-	600V	600V
Counts	2000	6600	6000	2000	4000	4000
Resistance, up to	2kΩ	66MΩ	60MΩ	-	40MΩ	40MΩ
Frequency, up to	-	66MHz	10MHz	-	2kHz	-
Temperature, up to	-	1000°C	-	-	1000°C	1000°C
Continuity test	√	√	√	-	√	√
Diode check	√	√	√	-	√	√
Capacity, up to	-	66mF	100mF	-	100μF	40mF
No-contact voltage detection	-	√	√	-	-	-
Inrush current	-	-	√	-	-	-
Leakage current with harmonic filter	-	-	-	√	√	√
True RMS measurement	-	√	√	-	-	√
Data hold	√	√	√	√	√	√
Relative measurements	-	√	√	-	√	-
Maximum/minimum values	-	√	√	-	-	√
Autoranging	-	√	√	-	√	√
Jaw size	42mm	40 mm with lighting	40 mm with lighting	31 mm	32 mm	30 mm
AutoOFF	-	√	√	√	√	√
Backlight display	√	√	√	-	√	-
Low battery display	√	√	√	√	√	√
Category under EN61010	CAT. II 1000V CAT. III 600V	CAT. III 1000V CAT. IV 600V	CAT. III 1000V CAT. IV 600V	CAT. III 600V	CAT. III 600V	CAT. III 600V

# DIGITAL MULTIMETERS

## • KPS-MT460 Pen-Type Digital Multimeter with NCV

- Display: 2000 counts
- Auto Ranging. Auto Power Off
- No-Contact Voltage Detection: >50V AC
- Logic Level Test:
  - 0~1.5V (Green LED on)
  - 1.5V~3.5V (Green & RED LED off)
  - 3.5V~5V (RED LED on)
- Diode test. Continuity Buzzer
- Maximun readings
- Data Hold. Low Battery Display
- CAT. III 600V according to EN 61010

Article	Code	EAN 13
KPS-MT460	602250032	8435394747170

VOLTAGE DC 600 V AC 600 V

Current DC 200 mA AC 200 mA

CAT III 600V

ETL Intertek

CE

RoHS



## • KPS-MT10 Pocket size digital multimeter

- Pocket size digital multimeter
- 4000 counts
- Resistance, frequency and capacitance measurement
- Continuity.
- Diode test.
- Data hold
- Autoranging and autoOFF
- CAT. III 300V, CAT. II 600V according to EN 61010

Article	Code	EAN 13
KPS-MT10	602250005	8435394710235

VOLTAGE DC 600 V AC 600 V

Current DC 400 mA AC 400 mA

CAT III 300V

CAT II 600V

ETL Intertek

CE

RoHS



## • KPS-MT30 Digital multimeter

- Digital multimeter
- 2000 counts
- 600V AC/DC, 10ADC. 2MΩ
- Resistance measurement
- Diode check and continuity test
- Data hold
- CAT. III 600V according to EN 61010.

Article	Code	EAN 13
KPS-MT30	602250004	8435394710228

VOLTAGE DC 600V AC 600 V

Current DC 10A

CAT III 600V

ETL Intertek

CE

RoHS

PATENTED



# DIGITAL MULTIMETERS

## • KPS-MT420 Digital multimeter

- Display: 2000 counts
- Resistance and temperature measurement
- Manual Range
- Auto Power Off
- Data hold
- Diode test.
- Continuity Buzzer.
- Battery check
- Low Battery Display
- CAT.III 600V according to EN 61010

Article	Code	EAN 13
KPS-MT420	602250024	8435394747095

VOLTAGE	DC 600V AC 600V	Current	DC 10A AC 10A
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## • KPS-MT440 Digital multimeter

- Automatic/manual measuring range.
- Resistance, capacitance and frequency measurements
- Display: 4000 counts
- Auto Ranging
- Relative Measurement
- Diode test. Data hold
- Continuity Buzzer.
- No-contact voltage detection
- Low Battery Display
- Display Backlight
- CAT. IV 600V according to EN 61010

Article	Code	EAN 13
KPS-MT440	602250025	8435394747101

VOLTAGE	DC 600V AC 600V	Current	DC 10A AC 10A
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## • KPS-MT50 Digital multimeter

- Temperature measurement from -20°C up to 1.000°C.
- 4000 counts.
- Resistance, frequency, duty cycle and capacitance measurement.
- Transistor (hFE) check.
- Diode check and continuity test.
- Non-contact voltage detection.
- Relative measurements.
- Data hold, maximum and minimum values.
- Autoranging.
- Display backlight.
- CAT. III 600V under EN61010.

Article	Code	EAN 13
KPS-MT50	602250002	8435394710204

VOLTAGE	DC 600V AC 600V	Current	DC 10A AC 10A
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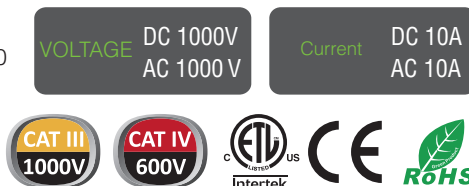


# DIGITAL MULTIMETERS

## • KPS-MT700 Digital multimeter

- Display: 6600 counts
- Resistance, capacitance and frequency measurements
- TRMS measurements
- Auto power off
- Low Battery Display
- Display Backlight
- USB jack for PC connection
- CAT. III 1000V, CAT. IV 600V according to EN 61010

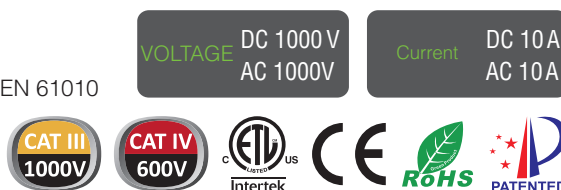
Article	Code	EAN 13
KPS-MT700	602250026	8435394747118



## • KPS-MT720 Digital multimeter

- Display: 6600 counts
- Auto range
- Auto Power Off
- Relative Measurement.
- TRMS measurements
- No-contact voltage detection.
- Diode test.
- Continuity Buzzer.
- MAX/MIN. Relative measurements
- Data hold
- Low Battery Display
- Display Backlight
- CAT. III 1000V, CAT. IV 600V according to EN 61010

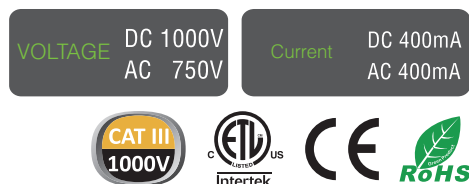
Article	Code	EAN 13
KPS-MT720	602250027	8435394747125



## • KPS-MT740 Digital multimeter

- Display: 6600 counts
- Auto Ranging. Auto Power off
- Resistance, capacitance, frequency and temperature measurement
- TRMS measurement. Relative Measurement
- Insulation measurements: DAR / PI.
- Continuity Buzzer. Diode test.
- Low Pass Filter Function (1kHz)
- Data Logging: 100 groups
- MAX/MIN/AVG. Data Hold
- Display Backlight. Low Battery Display
- CAT. III 1000V according to EN 61010

Article	Code	EAN 13
KPS-MT740	602250031	8435394747163



# DIGITAL MULTIMETERS

## • KPS-MT900 Digital multimeter

- The auto mode is convenient to operate in different functions for measuring AC/DC 600V, 10M resistance, continuity, frequency 3KHz and no manual need.
- Data hold.
- Low battery display.
- Forin-circuit continuity test.
- No-contact voltage detection.
- CAT. III 600V according to EN 61010

**SMART**  
Automatically detects  
what you are measuring!

VOLTAGE DC 600V  
AC 600V



Article	Code	EAN 13
KPS-MT900	602250030	8435394747156

## • KPS-MT920 Digital multimeter

- 4000 counts
- Portable, hand-held yet professional meter that features, AC/DC current, AC/DC voltage, Frequency&Duty cycle, Capacitance, Resistance,hFE.
- Auto range.
- Data hold.
- TRMS measurements.
- Relative measurements.
- No-contact voltage detection.
- Automatic Power OFF.
- hEF tests.
- Bluetooth connect with app.

**Bluetooth**



VOLTAGE DC 600V  
AC 600V

Current DC 10A  
AC 10A



Article	Code	EAN 13
KPS-MT920	602250028	8435394747132

## • KPS-MT940 Digital multimeter

- AC/DC current, AC/DC voltage, resistance and temperature measurement
- TRMS measurement.
- 4000 counts
- Auto Ranging
- Diode test.
- Continuity Buzzer.
- No-contact voltage detection
- Data hold. Auto Power Off
- Low Battery Display
- CAT III 600V according to EN 61010
- Bluetooth connection by App

**Bluetooth**



VOLTAGE DC 600V  
AC 600V

Current DC 10A  
AC 10A



Article	Code	EAN 13
KPS-MT940	602250029	8435394747149

# DIGITAL MULTIMETERS

FUNCTIONS	 <b>KPS-MT460</b> Pen-type digital multimeter	 <b>KPS-MT10</b> Pocket size digital multimeter	 <b>KPS-MT30</b> Digital multimeter	 <b>KPS-MT420</b> Digital multimeter	 <b>KPS-MT440</b> Digital multimeter	 <b>KPS-MT50</b> Digital multimeter
Code	602250032	602250005	602250004	602250024	602250025	602250002
Altern voltage, up to	600V	600V	600V	600V	600V	600V
Direct voltage, up to	600V	600V	600V	600V	600V	600V
Altern current, up to	200mA	400mA	-	10A	10A	10A
Direct current, up to	200mA	400mA	10A	10A	10A	10A
Counts	2000	2000	2000	2000	4000	4000
Resistance, up to	20MΩ	40MΩ	2MΩ	20MΩ	40MΩ	40MΩ
Frequency, up to	-	100kHz	-	-	5MHz	10MHz
Temperature, up to	-	-	-	1000°C	-	1000°C
Capacity, up to	-	100μF	-	-	100μF	4000μF
Continuity test	√	√	√	√	√	√
Transistor check	-	-	-	-	-	√
Diode check	√	√	√	√	√	√
Battery check	-	-	-	√	-	-
Insulation measurement	-	-	-	-	-	-
No-contact voltage detection	√	-	-	-	√	√
True RMS measurement	-	-	-	-	-	-
Low input impedance measurements	-	-	-	-	-	-
Data hold	√	√	√	√	√	√
Relative measurements	-	-	-	-	√	√
Maximum/minimum values	MAX	-	-	-	-	√
Autoranging	√	√	-	-	√	√
AutoOFF	√	√	-	√	√	√
Backlight display	-	-	-	-	√	√
Low battery display	√	√	√	√	√	√
PC connectivity	-	-	-	-	-	-
Data logging	-	-	-	-	-	-
Category under EN61010	CAT. III 600V	CAT. II 600V CAT. III 300V	CAT. III 600V	CAT. III 600V	CAT. IV 600V	CAT. III 600V



# DIGITAL MULTIMETERS

FUNCTIONS	 <b>KPS-MT700</b> Digital multimeter	 <b>KPS-MT720</b> Digital multimeter	 <b>KPS-MT740</b> Digital multimeter	 <b>KPS-MT900</b> Digital multimeter	 <b>KPS-MT920</b> Digital multimeter	 <b>KPS-MT940</b> Digital multimeter
Code	602250026	602250027	602250031	602250030	602250028	602250029
Altern voltage, up to	1000V	1000V	750V	600V	600V	600V
Direct voltage, up to	1000V	1000V	1000V	600V	600V	600V
Altern current, up to	10A	10A	400mA	-	10A	10A
Direct current, up to	10A	10A	400mA	-	10A	10A
Counts	6600	6600	6600	6000	4000	4000
Resistance, up to	66MΩ	66MΩ	66MΩ	10MΩ	40MΩ	40MΩ
Frequency, up to	66MHz	66MHz	66kHz	3kHz	10MHz	-
Temperature, up to	-	1000°C	1300°C	-	-	1000°C
Capacity, up to	66mF	66mF	66mF	-	100mF	-
Continuity test	√	√	√	√	√	√
Transistor check	-	-	-	-	√	-
Diode check	√	√	√	-	√	√
Battery check	-	-	-	-	-	√
Insulation measurement	-	-	50-1000V	-	-	-
No-contact voltage detection	√	√	-	√	√	√
True RMS measurement	√	√	√	-	√	√
Low input impedance measurements	-	√	-	-	-	-
Data hold	√	√	√	√	√	√
Relative measurements	√	√	√	-	√	-
Maximum/minimum values	√	√	√	√	-	-
Autoranging	√	√	√	√	√	√
AutoOFF	√	√	√	√	√	√
Backlight display	√	√	√	√	√	-
Low battery display	√	√	√	√	√	√
PC connectivity	USB	-	-	-	BT	BT
Data logging	-	-	√	-	-	-
Category under EN61010	CAT. III 1000V CAT. IV 600V	CAT. III 1000V CAT. IV 600V	CAT. III 1000V	CAT. III 600V	CAT. III 600V	CAT. III 600V

# VOLTAGE DETECTORS

## • KPS-DT10 Voltage detector up to 1.000V

- Used to detect voltage in stores, lighting, switches, cables and find breaks in cables
- 90-1000V~, 50/60Hz
- Beep sound and flashing LED indicate presence of voltage
- It is safe as it detects no-contact voltage.
- CAT. II 1000V according to EN61010

VOLTAGE  
90-1000V~



Article	Code	EAN 13
KPS-DT10	602350008	8435394710310



## • KPS-DT100 Voltage detector up to 1.000V

- Voltage Sensitivity: 90 to 1000V AC. Frequency: 50/60Hz
- Acoustic and visual indication by LEDs
- CAT.II 1000V, CAT.III 600V according to EN 61010

VOLTAGE  
90-1000VAC



Article	Code	EAN 13
KPS-DT100	602350019	8435394747255



## • KPS-DT120 Voltage detector up to 1.000V (adjustable)

- AC Voltage Detection.
- Auto/manual Voltage sensitivity adjustment
- AC voltage range: 12V~1000V
- Frequency: 50Hz~500Hz
- Red and green LED light
- Auto Power Off
- MEM Function (AC Voltage Sensitivity)

VOLTAGE  
12-1000VAC



Article	Code	EAN 13
KPS-DT120	602350020	8435394747262

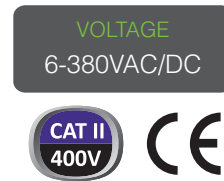


# VOLTAGE DETECTORS

## • KPS-DT20 Voltage and continuity detector

- AC and DC voltage detection: 6V, 12V, 24V, 50V, 110V, 220V, 380V
- Detection of alternating and continuous voltage up to 380V, indication by LEDs.
- Polarity indication.

Article	Code	EAN 13
KPS-DT20	602350004	8435394710273



## • KPS-DT200 Voltage detector

- AC / DC voltage detection: 12V, 24V, 50V, 120V, 230V, 400V
- Indication by LED and polarity indication
- CAT. III 400V according to EN61010

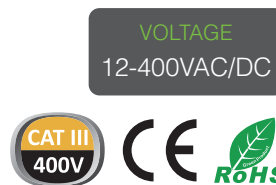
Article	Code	EAN 13
KPS-DT200	602350021	8435394747279



## • KPS-DT220 Voltage detector

- AC / DC voltage detection: 12V, 24V, 50V, 120V, 230V, 400V
- Polarity indication
- Frequency: 50-60 Hz
- GFCI or RCD test.
- Bright LED indication.
- Waterproof: IP54
- CAT III 400V according to EN 61010

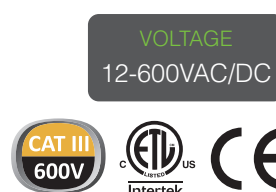
Article	Code	EAN 13
KPS-DT220	602350022	8435394747286









## • KPS-DT240 Voltage detector

- AC/DC Voltage: 12V-600V
- Frequency: 0-500 Hz
- Continuity test.
- GFCI or RCD test.
- Resistance measurement: 1-1999Ω
- Bright LED indicator. Vibration, Sound Indicator
- Auto Power Off, Low Battery Display, Work Light
- Waterproof: IP54
- CAT III 600V according to EN 61010

Article	Code	EAN 13
KPS-DT240	602350023	8435394747293



# VOLTAGE DETECTORS

FUNCTIONS	 KPS-DT10 Voltage detector	 KPS-DT100 Voltage detector	 KPS-DT120 Voltage detector	 KPS-DT20 Voltage detector	 KPS-DT200 Voltage detector	 KPS-DT220 Voltage detector	 KPS-DT240 Voltage detector
Code	602350008	602350019	602350020	602350004	602350021	602350022	602350023
Non-contact voltage detection	√	√	√	-	-	-	-
Voltage detection with contact	-	-	-	√	√	√	√
Voltage range	90-1000V	90-1000V	12-1000V	6-380V	12-400V	12-400V	12-600V
Continuous voltage polarity indication	-	-	-	√	√	√	√
Resistance	-	-	-	-	-	-	2kΩ
Continuity test	-	-	-	-	-	-	√
Differential test	-	-	-	-	-	√	√
Sensitivity adjustment	-	-	√	-	-	-	-
Acoustic indication	√	√	√	-	-	-	√
Visual indication (LEDs)	√	√	√	√	√	√	√
AutoOFF	-	-	√	-	-	-	√
Low battery display	-	-	-	-	-	-	√
Category under EN61010	CAT. II 1000V	CAT. II 1000V CAT. III 600V	CAT. II 1000V CAT. III 600V	CAT. II 400V	CAT. III 400V	CAT. III 400V	CAT. III 600V

# EARTH RESISTANCE TESTERS

## • KPS-TL300 Earth resistance tester

- The meter is applicable to the testing of the earth resistance of the power supply wires, distribution wires inside a room, electrical equipment or appliance, which can done in two measurement modes: Bi-poles or Tri-poles, and it also can be used to measure the earth voltage. Average rectification is used for the measurement of earth voltage.
- Auto Ranging. Auto Power Off. Segments Bar Graph
- MAX/MIN/AVG
- Continuity Test.
- Relative Measurement
- Data Logging: 99 groups
- Display Backlight
- Low Battery Display
- CAT. III 300V according to EN 61010



Article	Code	EAN 13
KPS-TL300	602350024	8435394747309

VOLTAGE  
0-200VAC

Resistance  
0,01~4,00 KΩ

## • KPS-TL320 Earth resistance tester

- Capable of measuring earth resistance and earth voltage.
- 2mA measuring current permits the testing of earth resistance without tripping earth leakage current breakers in the circuit under test.
- 0Ω adjustment.
- Battery operated.
- Data hold function.
- Low battery indication.
- Measurement modes: Bi-poles, Tri-poles.
- CAT. IV 200V according to EN 61010



Article	Code	EAN 13
KPS-TL320	602350025	8435394747316

VOLTAGE  
0-200V

Resistance  
0-2000Ω



### Calibrations

In our labs we carry out calibrations based on the most demanding standards in the market:

- »» UNE 17025
- »» ISO 9001:2008

For more info, please contact us:  
[info@kps-euman.com](mailto:info@kps-euman.com) | +34 985 081 873

**España:**  
[info@kps-soluciones.es](mailto:info@kps-soluciones.es)  
 +34 985 081 870

**Portugal:**  
[info@kps.pt](mailto:info@kps.pt)  
 +351 932 750 007

**México:**  
[info@kps-soluciones.com.mx](mailto:info@kps-soluciones.com.mx)  
 +52 55 5368 0577

# INSULATION TESTERS

## • KPS-MA100 Insulation tester up to 1kV

- Auto Power Off. MAX/MIN/AVG. Compare function. Timer function.
- DAR/PI. Backlight display. Relative Measurement
- Data Hold: LOCK
- Low Battery Display
- CAT III 1000V, CAT IV 600V according to EN 61010



VOLTAGE DC 1000 V  
AC 750 V

Resistance 10GΩ

Article	Code	EAN 13
KPS-MA100	602350026	8435394747323



## • KPS-MA500 Insulation tester up to 5kV

- Broad Range of Testing Voltage:
  - Testing voltages with broad range can be generated (from 250 V to 5 KV).
  - Testing voltage can be preset as 250 V, 500 V, 1 KV, 2.5 KV, or 5 KV, or as a voltage increasing or decreasing in steps of 25 V or 100 V.
- Insulation Diagnosis:
  - PI and DAR can be automatically calculated and displayed;
  - Step-voltage measurements and temperature compensation is carried out.
- Large Storage Memory:
  - Up to 100 manually tested data and 10 groups of log-test data can be saved.
  - Test data can be read on LCD, or uploaded to PC
- PC Communication:
  - The meter is equipped with a USB interface, through which the saved test data can be uploaded to a PC for further table/figure making and report generating with convenience.
- CAT. III 1000V, CAT. IV 600V according to EN 61010



Resistance 5TΩ

Article	Code	EAN 13
KPS-MA500	602350027	8435394747330



# CABLE TESTERS

## • KPS-CC600 Network cable tester BNC

- Testing Coaxial Cable (BNC)
- Testing 10Base-T, T568A, T568B, Token Ring
- Testing Cable' Shield Integrity
- Measurement Distance Of Cable: 200m(max)

Article	Code	EAN 13
KPS-CC600	602800000	8435394747347



## • KPS-CC620 Network cable tester BNC/RJ

- Battery Low Led Indicator
- Testing 10Base-T, T568A, T568B, Token Ring
- Testing Cable' Shield Integrity
- Measurement Distance Of Cable: 200m(max)
- Cable Length: Minimum: 0.4m. Maximum: Over 200m

Article	Code	EAN 13
KPS-CC620	602800001	8435394747354



## • KPS-CC640 Cable tracker (sender-receiver)

- Judge Continuity of the Cable or Wires\
- Track the Cables or Wires, and Diagnose the Break Point
- Identify the State in the Working Telephone Line (Clear, Ringing, Busy)
- Single (1500Hz) / Dual (1300~1500Hz)
- Receive Frequency: 100Hz~300kHz

Article	Code	EAN 13
KPS-CC640	602800002	8435394747361



# CABLE TESTERS

## • KPS-CC840 Advanced wire tracker (transmitter-receiver)

- Find the Beaks or Shorts in Cable in the wall or under the floor
- Track Cables in the wall or Earth
- Find the Fuse and Safeguard
- Track a Metal Conduit in the Project of ware or hot
- Sensitivity of Receiver can be Selected
- Auto Ranging, Auto Power Off, Backlight and Worklight
- CAT. III 300V according to EN 61010

Article	Code	EAN 13
KPS-CC840	602800003	8435394747378



## • KPS-CC800 Socket tester

- Clear LEDs indicate a range of wiring condition including: Correct
- Missing Earth
- Live / Earth Reverse
- Live / Neutral Reverse
- Missing Neutral
- CAT. II 220V

Article	Code	EAN 13
KPS-CC800	602800005	8435394747392



\* Plugs with different formats and voltages available

## • KPS-CC820 Circuit breaker finder (transmitter-socket tester)

- The task of Circuit Breaker Finder/Socket Tester is to find correct breaker or fuse and test socket.
- You will have annoyance no more for locating the correct circuit breaker supplying power to an AC outlet or lighting fixture.
- CAT II 600V according to EN 61010

Article	Code	EAN 13
KPS-CC820	602800004	8435394747385



\* Plugs with different formats and voltages available



## SMD TESTERS

### • KPS-SMD500 Smart SMD Tester

- Full automatic measurement:
- Auto scanning the Resistance/Capacitance/Diode
- Function selection by one "FUNC" Push Button
- Display: 3000 counts
- Auto Ranging
- Auto Power Off
- Auto Scanning
- Diode: 2.8V
- Continuity Buzzer: <math><30\Omega</math>
- Low Battery Display
- Safety Class: IEC1010-1, CAT I

Article	Code	EAN 13
KPS-SMD500	602800006	8435394747408

Resistance  
30M $\Omega$

CAPACITANCE  
30mF



### • KPS-SMD520 Smart LCR SMD Tester

- Display Counts: 6000
- Auto Range
- Auto Detect
- Manual Select
- Data Hold
- Auto Power Off
- Low Bat. Display
- V Type probe
- Water proofing: IP41
- Certification: CE-EMC, ROHS

Article	Code	EAN 13
KPS-SMD520	602800007	8435394747415

Resistance  
20M $\Omega$

CAPACITANCE  
6mF

INDUCTANCE  
200 H



### • KPS-SMD600 Digital LCR Meter

- This Digital LC Meter gives a direct reading of inductance and capacitance on a 3 1/2 digits LCD display. Six ranges from 1pF to 200 $\mu$ F and four ranges from 1 $\mu$ H to 2H give precision readings, which includes virtually all inductance and capacitance used in electronic engineering laboratory, production, service shops and schools. Its battery operation, light weight, and small size make it a truly portable instrument.
- LCD Display: 2000 counts
- Zero Automatic
- Input Jacks. High Accuracy in Measuring
- Fuse Protection: F 100mA /250V
- Low Battery Display

Article	Code	EAN 13
KPS-SMD600	602800008	8435394747422

INDUCTANCE  
2H

CAPACITANCE  
200 $\mu$ F



# ENVIRONMENTAL METERS

## • KPS-AN10 Digital Anemometer

- Anemometer with bar graph
- Measurement of air velocity and air flow in different units
- Air velocity: m/sc, f/min, km/h, miles/h, knots
- Air flow: cf/min, m3/min, m3/sc
- Accuracy of  $\pm 3\%$
- Flow area setting
- Data hold, maximum and minimum values
- Autopower OFF and low battery indication
- Display backlight

Article	Code	EAN 13
KPS-AN10	602450005	8435394710372



## • KPS-DG100 Combustible gas detector

- Easy To Identify and Pinpoint Gas Leaks
- Portable and High Sensitivity
- Resume Original Measurement State after 7~10 minutes in Clean air
- Gas Detected: Natural gas, Methane, Ethane, Propane, Butane, Acetone, Alcohol, Ammonia, Steam, Carbon Monoxide, Gasoline, Jet fuel, Hydrogen Solvents, Lacquer thinner, Naphtha
- Resolution (methane): 50ppm
- Alarm at Level: 10%~40%
- Warm Up Time: 2 Minutes
- Response tiime (40% LEL) <2 Seconds

RESOLUCIÓN 50 ppm	ALARMA 10%~40 %
----------------------	--------------------

Article	Code	EAN 13
KPS-DG100	602450014	8435394747439



### Repairs

We repair and calibrate your measuring instruments in our labs to guarantee the best performance of the equipment.

For more info, please contact us:  
[info@kps-euman.com](mailto:info@kps-euman.com) | +34 985 081 873

España:  
[info@kps-soluciones.es](mailto:info@kps-soluciones.es)  
 +34 985 081 870

Portugal:  
[info@kps.pt](mailto:info@kps.pt)  
 +351 932 750 007

México:  
[info@kps-soluciones.com.mx](mailto:info@kps-soluciones.com.mx)  
 +52 55 5368 0577

# ENVIRONMENTAL METERS

## • KPS-LX10 Digital light meter

- Digital light meter for illuminance measurement (LUX)
- Probe connected to measuring equipment using extensible cable.
- Measuring ranges: 2000 Lux, 20000 Lux, 50000 Lux
- Data hold.
- 2000 counts.
- Low battery display.

Article	Code	EAN 13
KPS-LX10	602450002	8435394710341

MEDICIÓN LUX  
0-50000 LUX



## • KPS-LX30LED Digital light meter

- High accuracy digital light meter. 2000 counts. Data hold function
- Fc/Lux/CD unit selection. Switch between different lighting sources.
- Measure of all kind of lamps, including LED lamps
- Low battery indication and autopower OFF
- Compact, durable and portable design

MEDICIÓN CD  
99990 0

MEDICIÓN LUX  
20000 0

MEDICIÓN FC  
20000

Article	Code	EAN 13
KPS-LX30LED	602450011	8435394739267



## • KPS-SN10 Digital sound level meter

- Class II under IEC 651. Measuring range: 30dB up to 130dB
- Accuracy:  $\pm 2$ dB. 2.000 counts. Resolution: 0,1dB
- Large digital LCD display with bar graph
- Frequency range: 30Hz up to 8kHz
- Sample rate: 2 times per second
- Overrange indication
- Data hold, maximum and minimum values
- A/C weighting selection
- FAST/SLOW selection
- Autopower OFF and low battery indication
- Display backlight

MED. SONIDO  
30dB~130dB

FRECUENCIA  
31.5Hz~8KHz

Article	Code	EAN 13
KPS-SN10	602450004	8435394710365



# TEMPERATURE METERS

## • KPS-TM15

### Non-contact infrared thermometer

- Non-contact infrared thermometer.
- Class II laser target pointer according to FDA.
- Check for the existence of thermal bridges and the possibility of mold.
- Emissivity: 0,75 / 0,85 / 0,95. D-S ratio=12:1
- Indication in degrees: Celsius or Fahrenheit. Backlit Display.
- Data hold with sample on screen, low battery indicator and auto off.
- Tested and certified according to IEC/EN 61326.

Article	Code	EAN 13	HUMEDAD REL.	TEMPERATURA IR	TEMPERATURA AMB.
KPS-TM15	602450013	8435394742915	10%~90%	-20°C~350°C	-10°C~40°C



## • KPS-TM800

### Non-contact infrared thermometer

- D:S: 12:1
- Emissivity: Adjustable:0.10~1.0
- Resolution: 0.1°C(0.1°F)<199.9, 1°C(1°F)>199.9
- Spectral Response: 8-14 um
- Laser Pointers: Output: <1mW, 630~670 nm,class 2 (II) laser

Article	Code	EAN 13	TEMPERATURA IR	TEMPERATURA K
KPS-TM800	602450015	8435394747446	-40°C~800°C	-40°C~1080°C



## • KPS-IR500

### Infrared camera

- Temperature range: -20°C-400°C, -4°F-752°F. Accuracy: ±2% ,2°C
- Emissivity: 0.1-0.99. D:S: 20:01. Resolution: 0.1°C/°F
- React time: 150ms. Sepctral Response: 8-14µm
- Image resolution (W\*H): 80\*60
- Field of view (H\*W): 50°\*38.6°
- Palette: Red, Rainbow, Black hea, White hea
- Storage format: BMP Image. Pixels: 200
- Display mode: Termal image / mix / Digital camera. Storage: 10 K pictures
- Photo compare: Thermal image comparing to Digital image
- Display Type: 2.4" TFT LCD
- Display resolution: 76800 (240\*320)
- Power interface Mini-USB. Data transmission: Mini-USB / Bluetooth (USB2.0)
- Memory Card 8GB miniSD

Article	Code	EAN 13	CE	RoHS
KPS-IR500	603550008	8435394747538		



# TEMPERATURE METERS

## • KPS-TM300 Digital thermometer 1 channel

- Suitable for various thermocouples, such as J, K, T, E
- It can show results with °C, °F and K (Kelvin)
- Maximum, minimum and average value measurement. Data hold
- Thermocouple deviation compensation.
- Automatic power-off  
(automatic power-off time can be set by users)
- Low Battery Display

Article	Code	EAN 13
KPS-TM300	602450016	8435394747453

TIPO  
K, J, T, E

CANAL  
T1



## • KPS-TM320 Digital thermometer 2 channels

- Suitable for various thermocouples, such as J, K, T, E
- It can show results with °C, °F and K (Kelvin)
- Maximum, minimum and average value measurement
- Thermocouple deviation compensation
- Relative time display
- Automatic power-off  
(automatic power-off time can be set by users)
- Dual-line input (T1, T2)
- Data Hold
- Low Battery Display

Article	Code	EAN 13
KPS-TM320	602450017	8435394747460

TIPO  
K, J, T, E

CANAL  
T1/T2/T1-T2



## • KPS-TM340 Digital thermometer 2 channels with data logging

- Suitable for various thermocouples, such as K, J, T, E, R, S, N
- It can show results with °C, °F and K (Kelvin)
- Maximum, minimum and average value measurement
- Thermocouple deviation compensation
- Automatic power-off  
(automatic power-off time can be set by users)
- USB port and interface
- Data Logging: 1000 groups
- Data Hold
- Low Battery Display

Article	Code	EAN 13
KPS-TM340	602450018	8435394747477

TIPO  
K, J, T, E, R, S, N

CANAL  
T1/T2/T1-T2



# INDUSTRIAL METERS

## • KPS-TC10 Digital tachometer with contact

- Measurement of angular speed from 50 to 20.000 RPM
- Measurement of lineal speed: m/min, m/sc, feet/min, feet/sc, inch/ min
- Data hold
- Maximum, minimum and average values
- Data logging up to 100 groups
- Autopower OFF and low battery indication
- Display back light

Article	Code	EAN 13
KPS-TC10	602450008	8435394710402

RANGO  
50~19999 RPM



## • KPS-TC20 Digital tachometer without contact

- Measurement of angular speed from 50 to 100.000 RPM
- Measurement distance: 50 to 250mm
- Data hold
- Maximum, minimum and average values
- Data logging up to 100 groups
- Autopower OFF and low battery indication
- Display back light

Article	Code	EAN 13
KPS-TC20	602450009	8435394710419

RANGO  
50~100.000 RPM



## • KPS-SL100 AC line splitter

- Allows for Easy AC Current Measurements Using a Clamp Meter on 2 or 3 Wire Power Cords
- It can also be used to test the equipment's working voltage using a multimeter.
- Provides the Ability to Safely Measure Current without the need to cut or Separate Conductors
- Separates the Hot / Live Conductor from the Neutral and Ground
- Voltage check sockets for easy power calculations
- AC Voltage: 250V
- AC Current: 15A
- X1 current terminal: Test actual working current
- X10 current terminal: Test working current x 10
- CAT. II, 600V

Article	Code	EAN 13
KPS-SL100	602350028	8435394747484

VOLTAGE  
AC 250 V

Current  
AC 15 A



# INDUSTRIAL METERS

## • KPS-CF100 Motor and phase rotation indicator

- Motor and Phase Rotation Indicator is a handheld, battery-operated instrument designed to detect the rotary field of three-phase systems and determine motor-rotation direction.
- Non-Contact Rotary Field Indication.
- CAT. III, 600V

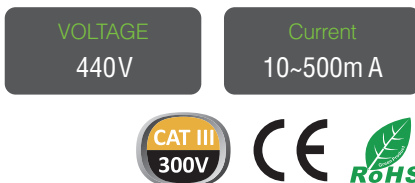
Article	Code	EAN 13
KPS-CF100	602350029	8435394747491



## • KPS-RCD100 RCD / Loop tester

- Data Logging: 1000 groups
- Fast/Low Testing of 10, 30, 100, 300, 500mA
- Measuring range selection: auto/manual measuring range
- Display Backlight
- USB interface: Windows OS
- Low Battery Display

Article	Code	EAN 13
KPS-RCD100	602350030	8435394747507



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For more info, please contact us:  
[info@kps-euman.com](mailto:info@kps-euman.com) | +34 985 081 873

**España:**  
[info@kps-soluciones.es](mailto:info@kps-soluciones.es)  
+34 985 081 870

**Portugal:**  
[info@kps.pt](mailto:info@kps.pt)  
+351 932 750 007

**México:**  
[info@kps-soluciones.com.mx](mailto:info@kps-soluciones.com.mx)  
+52 55 5368 0577

# DISANCE METERS

## • KPS-DM100 Laser distance meter

- Assisted laser ray measurements up to 100 meters
- Data Logging: 99 groups
- Area & Volume Calculation. Auxiliary foot level measurement
- Display Backlight
- Unit: meter/inch/feet
- Auto power off
- Laser level: II

Article	Code	EAN 13
KPS-DM100	602800009	8435394747514

DISTANCIA  
0.05m~100 m



## • KPS-DM040 Laser distance meter

- Maximum distance measurement: 40m.
- Measurement unit options: mm/in/ft
- Volume measurement function
- Pythagorean proposition measurement function.
- Add and subtract measurement function
- Min/Max value
- Max storage: 99 units
- Automatic backlight
- Laser level: II

Article	Code	EAN 13
KPS-DM040	602800010	8435394747521

DISTANCIA  
0.05m~40 m





# CABLES, TEST LEADS & THERMOCOUPLES

## •KPS-PT30 Test leads with alligator clips

- For 4mm banana plug
- EN 61010-031:2002 + A1:2008
- CAT III 600V 10A

Article	Code	EAN 13
KPS-PT30	602990041	8435394710433



## •KPS-CP400 Fused test probe with silicone test leads

- 2 replaceable fast-acting fuses are built-in.
- Include High-quality silicone test leads, 1.5 meter long.
- EN 61010-031
- CAT III 1kV 10A / CAT IV 600V 10A

Article	Code	EAN 13
KPS-CP400	602990140	8435394747545



## •KPS-CP420 Test probe

- Large test probe handle with shrouded 4mm brass caged banana plug tip.
- Super insulated silicone wire 2.7m.
- Safety straight input plug connect with extra green guard.
- Warning :
  - Input : Max. Ac 1000V
  - Output : Max. Dc 10Kv. 3W
  - Only available for Insulation Tester.
- EN 61010-031:2002 + A1:2008
- CAT III 10kVdc 2mA

Article	Code	EAN 13
KPS-CP420	602990141	8435394747552



## •KPS-CP500 Alligator clips with integral finger guard

- Wide grip alligator clips with integral finger guard and large 35mm high voltage spring mouth.
- PVC-insulated wire (Red-30m, Yellow-20m, Green-5m).
- Right angle connector.
- For 3-wire earth resistance tester use

Article	Code	EAN 13
KPS-CP500	602990142	8435394747569



# CABLES, TEST LEADS & THERMOCOUPLES

## • KPS-PT20

### Test leads large size

- Max. 10A
- Length: 1000mm / Tip: 2mm diameter. Color: red, black
- CAT. II 1000V, CAT. III 1000V, CAT. IV 600V



Article	Code	EAN 13
KPS-PT20	602990042	8435394710440



## • KPS-PT15

### Test leads small size

- Max. 10A
- Length: 800mm / Tip: 2mm diameter. Color: red, black
- CAT. II 1000V, CAT. III 1000V



Article	Code	EAN 13
KPS-PT15	602990076	8435394739250



## • KPS-CP300

### Test probe straight tipe & right angle type

- Max. 10A
- Length: 1000mm / Tip: 2mm diameter. Color: red, black
- CAT. III 1000V



Article	Code	EAN 13
KPS-CP300	602990143	8435394747576



## • KPS-PT200

### IC test clip

- Length: 185mm
- Max. 5A
- Plug: 4mm diameter jack
- Color: red, black



Article	Code	EAN 13
KPS-PT200	602990144	8435394747583

# CABLES, TEST LEADS & THERMOCOUPLES

## • KPS-PT100 Alligator clip

- Length: 54mm
- Color: red, black

Article	Code	EAN 13
KPS-PT100	602990145	8435394747590



## • KPS-PT120 Extra large alligator clip

- Length: 65mm
- 4mm diameter cross plug
- Color: red, black

Article	Code	EAN 13
KPS-PT120	602990146	8435394747606



## • KPS-TP100 K type thermocouple

- Length: 1000mm
- Range: -40°C ~ 260°C (-40 ~ 500°F)

Article	Code	EAN 13
KPS-TP100	602990147	8435394747613



## • KPS-TP300 K type thermocouple

- Length: 1000mm
- Plug length: 12mm
- Range: -40°C ~ 260°C (-40 ~ 500°F)

Article	Code	EAN 13
KPS-TP300	602990148	8435394747620



## • KPS-TP120 K type thermocouple

- Length: 1000mm
- Range: -40°C ~ 600°C (-40 ~ 1112°F)

Article	Code	EAN 13
KPS-TP120	602990149	8435394747637



## • KPS-TP320 K type thermocouple

- Length: 1000mm
- Plug length: 12mm
- Range: -40°C ~ 600°C (-40 ~ 1112°F)

Article	Code	EAN 13
KPS-TP320	602990150	8435394747644



# MULTIFUNCTION ELECTRICAL SAFETY TESTERS

LV Installation Safety & Operation Condition Quality & Switchboards & Circuit Protection Parts  
Continuity, Insulation, Z Loop impedance, RCD, Earth...

## • General features

- AUTOSEQUENCE automatic LIVE and DEAD tests, programmable, no lost or forgotten results / parameters, worst case evaluated, human error factor minimized;
- Automatic evaluation of safety at test point, up to 50 parameters, Fuse and RCD characteristics, adjusted limits and tested results combined together and evaluated simply as PASS / FAIL;
- Report Creator with powerful two way communication PC SW Tool EuroLink PRO or MESM.
- Up to 5 times faster than any existing equivalent Safety testing procedure;



## • Advantages

- TN / TT / IT and other earthing systems support;
- Zloop L-PE, L-N and L-L impedances at entry and exit points of circuits, comparison of both results and  $\Delta U$  calculation in %, Ip<sub>sc</sub> and Ip<sub>fc</sub> calculation, Fuse protection evaluation;
- Test of RCD protection at AC / A / F / B / B+ current shape on G or S type;
- Evaluation of PE continuity, automatic polarity switch; PE evaluation, two polarities automatic;
- Insulation testing through Switchboard, on Circuits, Insulation of Walls and Floors, Antistatic Floors testing, automatic insulation testing;
- TRMS Clamp-on Leakage Current testing; Over voltage protection with ramp;
- IMD and ISFL testing on IT systems, Medical site testing, Mobile Installations;
- 2-wire, 3-wire, 4-wire, 1 clamp, 2 clamps Earth / Ground resistance testing;
- Other tools for Three Phase Systems, Locating fuses and cables, Illumination measuring, high resolution Z impedance for power lines.

## • Applications

- Low Voltage Electrical Installation Safety.
- Low Voltage Electrical Installation Designers needs.
- Facility Management, maintenance and care of commercial or institutional buildings, such as hospitals.
- Hotels, office complexes, arenas, schools or convention centres.
- Low voltage installations maintenance, Preventive and Predictive maintenance,
- Corrective maintenance / Reactive repairs.
- Periodic Statutory Testing and Inspections.
- Fire Safety and Hazards, Troubleshooting of Overloaded electrical systems, hot wiring or connections, failed components.
- Electrical Safety in Working places.
- Electrical Safety in Public Areas.



## • Selection guide

Features	Description	MI 3152 EurotestXC	MI 3102H BT EurotestXE 2,5kV	MI 3102 BT EurotestXE	MI 3100 SE EurotestEASI
CODE		602200128	602200116	602200118	602200103
	AUTOSEQUENCE Programmable				
AUTOSEQUENCE	Auto TT (U, ZIn, Zs, Uc)	•	•	•	•
	Auto TN/RCD (U, ZIn, Zs, Rpe)	•	•	•	•
	Auto TN (U, ZIn, ZPL, Rpe)	•	•	•	•
	Auto IT (U, Zi, Is, Im)	•		•	
VOLTAGE	Voltage TRMS, Frequency Frequency phase SEQUENCE L1-L2-L3	•	•	•	•
INSULATION	50 V - 1 kV / 2,5 kV PI DAR	• / -	• / •	• / -	• / -
	Auto L-PE, PE-N, L-N				
CONTINUITY	Rlow (200 mA)	•	•	•	•
	Continuity (7 mA)	•	•	•	•
RPE	RPE / RPE(rcd)	•	•	•	•
ZLINE	Zline, Ipssc, ΔU % / fuse tables	•	•	•	•
	A 1143 Euro Z adapter support	•			
ZLOOP	Zloop, Ipfc/fuse tables Zs(rcd)	•	•	•	•
RCD	RCD t, Uc RCD I ramp, Uc Auto	AC / A / B / F / B+	AC / A / F	AC / A / B / F / B+	AC / A / F
	PRCD-S, PRCD-K	•		•	
EARTH	Earth 3 wires	•	•	•	•
	Earth 2 clamps	Optional	Optional	Optional	
	RO adapter	Optional	Optional	Optional	
OTHER	Power (S, Q, PF, THDU)	•	•	•	
	Harmonics (U, I)	•	•	•	
	Current Leakage / Load	Optional	•	•	
	IT Support / IMD, ISFL	• / •	• / -	• / •	• / -
	Commanders	•	•	•	Optional
	Locator			Optional	
	LUX Sensor	Optional	Optional	Optional	
	Varistor				
BLUETOOTH MODULE	Built-in	•	•	•	
	External (dongle)				•
PC SW	SW PC Professional / Advanced	• / Optional	• / Optional	• / Optional	• / Optional
COMMUNICATION PORTS	RS232/ USB	•	•	•	•
	Bluetooth	•	•	•	Optional

# ELECTRICAL SAFETY TESTERS

Special Installations Testing, Maintenance, Troubleshooting & Integrated IT Systems  
Z Line impedance, RCD, RCM, ELM, IMD, Earth...

## • General features

- AUTOSEQUENCE automatic tests, worst case evaluated, human error factor minimized;
- Automatic evaluation of safety for Medical Locations, Integrated IT systems and Installations on Vehicles, Fuse characteristics, supported IMD, ELM, RCM devices, adjusted limits and tested results combined together and evaluated simply as PASS / FAIL;
- Insulation and Earth Bonding Continuity for industrial environment and Special installations and Locations;
- Earth / Ground Resistance / Soil Resistivity in-line, triangle or mirror connection for close overlapped funnels on earthing systems, urban environment, also for industrial and noisy environment;
- Report Creator with powerful two way communication PC SW Tool EuroLink PRO.



## • Advantages



- Test of IMD, ELM and RCM devices with ISFL pre-test and Voltage balance evaluation;
- Zloop L-N and L-L impedances at the entry and at the end of circuits, comparison of both results and dU calculation in %;
- Earth Bond testing with minimum 200 mA, 10 A, both polarities, Inductive mode supported;
- Insulation testing through Switchboard, at Circuits, Insulation of Walls and Floors, Antistatic Floors testing;
- PI and DAR factor Insulation testing on cables, transformers, motors;
- Overvoltage varistors and Surge arresters testing with up to 2.5 kV voltage ramp;
- TRMS Clamp-on Leakage Current testing;
- Lightning systems and PE Conductive loops testing with Two Clamps method;
- • 2-wire, 3-wire, 4-wire, 1 clamp, 2 clamps Earth / Ground resistance testing;.

## • Applications

- Medical Sites and Specific Medical Units, Surgery Rooms, Ambulance Vehicles and Emergency Cars, Helicopters, Boats.
- Mobile Video / Audio / Concert Halls / Fair playground, Satellite / Video Broadcast Vehicles.
- Military and Police Portable Stations and Units, Vehicles, Helicopters, Airports, Mobile Units, Mobile Restaurant Units.
- Racing Team Mobile Units, Restaurant Units.
- Fire Brigade Engines and Vehicles, Fire Boats, Emergency Vehicles and Cars.
- Generators of working Ships and Boats, Fishing Boats and Ships, Transport Ships, Tourist Cruisers Ships, Marina places, Mobile Units with Integrated IT Generators / Transformers / LV Electrical Installations.
- Gas stations, Pipes, Ground metal plates and covers, Oil tanks.
- Earth, Ground and Lightning protection Systems of Buildings and Industrial Halls, from single earthing points to complex systems.



## • Selection guide

Features	Description	MI 3123 Clamp Earth / Clamp	MI 3122 Z Line-Loop / RCD	MI 3121 Insulation/Continuity
				
CODE		602200086	602200085	602200084
INSULATION	50 V - 1 kV			•
	250 V, 500 V			•
CONTINUITY	Current 200 mA			•
ZLINE	Zline, Ipsc, ΔU % / FUSE tables		•	
ZLOOP	Zloop, IpfC / FUSE tables Zs(rcd)		•	
RCD	RCD t, Uc RCD I ramp, Uc Auto		AC / A	
EARTH	Earth 3 wires	•		
	Earth 2 clamps	•		
	RO Adapter	•		
VOLTAGE	Voltage TRMS, Frequency, Phase SEQUENCE L1-L2-L3		•	•
PC SW	PC SW	•	•	•
COMMUNICATION PORTS	USB and RS232	•	•	•
OPTION				2,5 KV (consult)

# PV SYSTEMS TESTERS

PV Systems, Inverters, Panels, Modules Testing, Maintenance, Troubleshooting  
Photovoltaic Modules, Panels, Strings, Inverters...

## • General features

- Automatic measurements on PV Systems.  
Combined photovoltaic tester and electrical installation safety tester. Environment measurements and calculation to STC.  
Insulation measurements under energised PV system.  
Large PV module Data Base;
- PASS/FAIL evaluation of electrical safety test results;
- Report Creator with powerful two way communication PC SW  
Tool EuroLink PRO.



## • Advantages

PV installation testing:

- Uoc, Isc, Irradiance and Temperature measurements;
- I - U curve of modules and strings on PV systems; MPP determination and STC calculations;
- Irradiance and Temperature Logger;
- Insulation under Voltage of PV panels and strings;

Power measurements on AC and DC:

- DC / AC TRMS Clamp-on Current testing;
- Efficiency of Solar Panels and Inverters;

Electrical Safety testing:

- Zloop L-N and L-L, RCD protection;
- Continuity and Earth Bond test;
- Insulation testing through Switchboard, at Circuits;
- Over voltage protection testing;
- Earth / Ground resistance testing.
- TRMS Clamp-on Leakage Current testing;

## • Application

- Safety testing of PV and electrical installations.
- Measuring and Testing the Efficiency of the whole System.
- MPP check, Inverter check, Working point of Inverter Testing.
- Maintenance and troubleshooting based on I-V characteristic checking for possible deviations from the standard shape.





## • Selection guide

Features	Description	MI 3108 EurotestPV	MI 3109 EurotestPV Lite	A 1378 EurotestPV Remote
CODE		602600038	602600036	602990033
ELECTRICAL INSTALLATION SAFETY	Insulation resistance up to 1000 V	•	•	
	Continuity 200 mA	•	•	
	Line / Loop Impedance	•		
	RCD A, AC, B	•		
	Earth resistance	•		
	Rotary field	•		
PV GENERATOR MEASUREMENTS	Isc, Uoc	1000 V / 15 A	1000 V / 15 A	
	Automatic test sequence		•	
	I-V Curve	•	•	
	Umpp, Impp, Pmax	•	•	
	Extrapolation to STC	•	•*	
	RS (calculated in PC SW)	•	•	
ENVIRONMENT MEASUREMENTS	Irradiance	•	•*	•
	Module temperature	•	•*	•
	Logger			•
PV SYSTEM POWER MEASUREMENTS	DC side measurements U, I, P	•	•	
	AC side measurements (single phase) U, I, P	•	•	
	Single phase PV and inverter energy conversion efficiency	•	•	
	Three phase PV and inverter energy conversion efficiency	Option**	Option**	
EXTENDED POWER FUNCTIONALITY	P, Q, S, THDU, PF/cos fi	•		
	AC/DC current	•		
	Scope function	•		
	Energy	•		
	Harmonics (up to 11 <sup>th</sup> )	•		
STANDARD/ OPTIONAL ACCESSORIES	Tip commander	Option		
	Remote unit (logger)	Option	Option	•
	PV safety probe	•	Option	
	MC3 and MC4 adaptors	•	•	
	AC/DC current clamp	•	•	
	PV reference cell	•	Option	
	Temperature probe	•	Option	
PC SW	PC SW EuroLink PRO PLUS	•/Option	•/Option	

\* Environment data can be entered manually or measured with optional accessory.  
\* Three phase PV efficiency can be measured by synchronisation with any Power Analyser.

# SWITCHBOARDS/MACHINE TESTERS

Portable Appliances Safety Testing, CE Marking & Machines Electrical Safety & Switchboards Safety  
Earth bond, Insulation, Differential / Touch / Substitute Leakage...

## • General features

- AUTOSEQUENCE automatic testing programmable or standardized shortcuts of anykind of Machines, Switchboards, Controlgear, Portable Appliances, Fixed Appliances, IT equipment, IEC cords, portable RCD devices and exVOLTAGE leads;
- Automatic evaluation of safety with simple PASS / FAIL information but supported with all subresults for detailed report;
- 3-phase appliance testing;
- PATLink Android scanning of the QR codes, containing information of the previous results, the test status, and the previously used test sequence;
- Scan, test and print barcoding system, and PASS / FAIL barcode label printing make retesting quick and simple;
- Active polarity for P/RCD protected exVOLTAGE leads testing;
- Report Creator with powerful two way communication PC SW Tool PATLink PRO;



## • Advantages

- HV Withstanding dielectric test with programmable voltage ramp AC, 500 VA, up to 5 kV, fixed voltage levels 1 kV, 1,89 kV, 2.5 kV and limited power Flash tests on 1.5 kV / 3 kV;
- Earth bond / continuity resistance test with test currents 200 mA and powerful 10 A / 25 A;
- Insulation resistance, Touch leakage current and Substitute leakage current on inner and exposed isolated accessible conductive parts for class I / class II appliances;
- Differential Leakage, Touch Leakage and Substitute Leakage test;
- Functional test and TRMS load currents testing;
- Innovative Active Polarity function for testing RCD / PRCD protected cords while voltage is applied to tested item;
- Trend function showing comparison of old and new test results on large graphic LCD display;
- Instrument can be powered from both mains supply and internal battery;
- Results can be read / written / sent via USB,
- Bluetooth, External Printer, Barcoding, QR Coding and RFID system.

## • Applications

- Type testing of Appliances, Machines and Switchgears / Controlgears after production in producer's R&D phases and Laboratories.
- CE marking and Routine testing after production. • Testing of Power Tools, ExVOLTAGE Leads and Appliances on Construction sites.
- Testing of Appliances protected with RCDs (type AC, A, and B), portable PRCDs (type K, S).
- Service departments (after repair testing), Hire and Rental Industry (before hire and after return testing).
- Periodic testing of Portable Appliances for Hotels, Schools, Kindergardens, Public places, Restaurants, Kitchens, Shopping Centers, Stores, Fire Brigades, Military, Expo Centers, Concert Halls, Events.
- Testing of Hard-wired Appliances.



## • Selection guide

Features	Description	MI 3394 CE MultiTesterXA	MI 3321 MultiServicerXA	MI 3311 GammaGT
CODE		602300039	602200087	602990023
	CE marking / PAT / MACHINE / SWITCHBOARD	• / • / • / •	- / • / • / •	- / • / - / -
AUTOSEQUENCES	AUTOSEQUENCE Programmable	•	•	•
	Auto VDE		•	•
	Auto CUSTOM	•	•	•
WITHSTANDING	Ramp test 100 ... 5000 VAC (500 VA)	•		
	Ramp test 600 ... 600 VDC	•		
	Test voltage 1000 VAC / 1890 VAC / 2200 VAC (500 VA)	• / • / •	• / • / •	
CONTINUITY	Current 200 mA	•	•	•
EARTH BOND	Current 4 A / 10 A / 25 A	• / • / •	- / • / •	- / - / -
INSULATION	50 VDC / 100 VDC / 250 VDC / 500 VDC / 1000 VDC	• / • / • / • / •	- / - / • / • / -	- / - / • / • / -
LEAKAGE CURRENT	Differential leakage current	•	•	
	Touch leakage current	•	•	
	PE leakage current	•		
	Substitute leakage current	•	•	•
	Leakage current measurement with optional clamp		•	
DISCHARGE TIME	60 V (1 ... 5 s)	•	•	
	120 V (1 ... 5 s)	•	•	
RCD	RCD t, Uc RCD I ramp, Uc Auto		AC / A / B	
	PRCD-S, PRCD-K		•	
ZLINE	Zline, Ipsc, ΔU% / FUSE tables		•	
	A 1143 Euro Z adapter support		•	
ZLOOP	Zloop, Ipfc / FUSE tables Zs(rcd)		•	
THREE PHASE APPLIANCES	A 1322 Active 3-phase Adapter		Optional	
	A 1422 Active 3-phase Adapter Plus		Optional	
VOLTAGE	Voltage TRMS, Frequency	• / -	• / •	• / -
	Phase SEQUENCE L1-L2-L3		•	
POLARITY	IEC lead test		•	•
	Active polarity			
OTHER	Functional test	•	•	
	Power	•	•	
	Barcode	Optional	Optional	Optional
	Printer		Optional	Optional
BLUETOOTH MODULE	Built-in	•		
	External (dongle)			•
PC SW	PC SW PATLink PRO Plus		•	•
	PC SW Metrel ES Manager	•		
COMMUNICATION PORTS	RS232 / USB	• / •	• / •	• / •
	Remote	•		

\* RCD t, only

# POWER QUALITY ANALYZERS

Power and Voltage Quality & Consumption and Disturbances  
Power, Harmonics, THD, Phase diagram, Flicker, Transient, Waveform...



## • General features

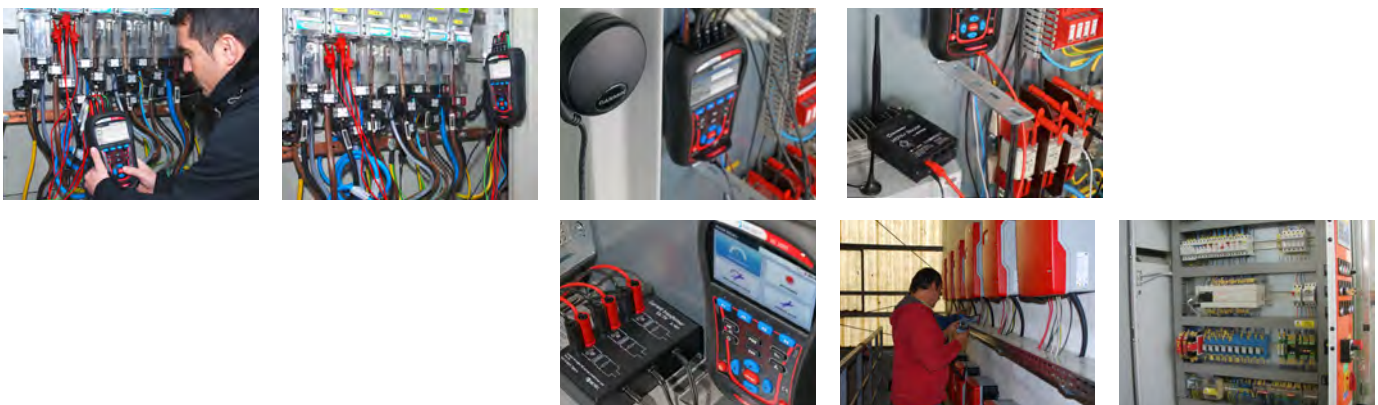
- Automatic Voltage and Power Quality Analysis according to EN 50160 with PASS / FAIL limit evaluation, including flickers and harmonics. Compliance with power quality standard IEC 61000-4-30 Class A/S. Predefined recorder profile for EN 50160 survey;
- Troubleshooting and Maintenance Tool to discover voltage sags and swells, resonant states, high neutral conductor currents in 3-phase systems, asymmetry, transients;
- Designing Tool of filtering systems, power correction equipment, over voltage protection and UPS systems;
- Power Quality Negotiating background Tool;
- Download, view and analyse with PowerView PC SW platform that contains a package of functionalities needed for evaluation of power quality phenomena and creation of complex reports.

## • Advantages

- Voltage TRMS, peak, crest factor (4-channel), 0 ... 1000 Vrms;
- Current TRMS, peak, crest factor (4-channel), automatic clamp recognition;
- Power (active, reactive, apparent), Power factor, cos fi, Unbalance;
- Energy (active, reactive, generated, consumed);
- Harmonic analysis up to 50th harmonic, THD measurement;
- Flicker measurement;
- Waveform displaying and Transient snapshotting • Fast logging and Inrush Current recording;
- Faster troubleshooting due to on-screen displaying of trends and captured events;
- Voltage events and user defined alarms capture;
- GPS time synchronization;
- Internal memory allows recording over one month period;
- Instrument, or a group of them, can be remotely controlled and programmed via GPRS modem.

## • Applications

- Power Quality, Maintenance, Compensation PF, Filters, Start up machines.
- Power quality assessment and troubleshooting in low and middle voltage electrical systems.
- Energy assessment to quantify the before and after installation improvements in energy consumption in order to justify energy saving devices,
- Checking power correction equipment performance.
- Long-term analysis, to uncover hard-to-find or intermittent issues.
- Predictive maintenance, to detect and prevent power quality issues before they cause downtime.
- Load studies, to verify electrical system capacity before adding loads;
- Start up current, unbalance/asymmetry recording to optimize systems efficiency.
- Electrical Safety in Public Areas.



# POWER QUALITY ANALYZERS

## • Selection guide

Features	Description	MI 2892 Power Master 	MI 2885 Master Q4 	MI 2883 Energy Master 
CODE		602600044	602600052	602600050
CLASS	IEC 61000-4-30 Class A / Class S / Class B	Class A 0.1% (Independent certificate)	Class S	Class S
INPUTS	Number of current measuring inputs	4	4	4
	Number of voltage measuring inputs	4	4	3
PERIODICALS	TRMS Voltage measurement (Min., Max., Avg.)	•	•	•
	TRMS Current measurement (Min., Max., Avg.)	•	•	•
	Current in neutral conductor	•	•	•
	Power Factor and cos φ	•	•	•
	Power measurement (W, VA, VAR)	•	•	•
	Energy measurement	•	•	•
	THD and harmonics analysis	•	•	•
	Frequency measurement	•	•	•
	Flicker measurement	•	•	•
	Voltage events (sags, swells, interruptions)	•	•	•
	Unbalance	•	•	•
	EN 50160 Analysis	•	•	•
	ON-LINE	Scope function	•	•
Phase diagram		•	•	•
Harmonics measurement		•	•	•
SPECIAL TOOLS	Transients measurement	•		
	Waveform recording	•	•	
	Inrush currents	•	•	
OTHER	Interharmonics analysis	•	•	•
	Signalling	•	•	•
	Temperature measurement	•	With optional sensor	With optional sensor
PC SW	PC SW PowerView3 (free of charge)	•	•	•
COMMUNICATION PORTS	MicroSD memory card	•	•	•
	RS232	GPS receiver only	GPS receiver only	
	USB	•	•	•
	Ethernet	•	•	
	GPS time synchronisation	•	•	
	Remote instruments control (3G/WiFi)	Optional	Optional	

# HV METERS AND TESTERS

HV Safety and Quality in Industrial Systems & Power Generation & Distribution Systems & Equipotential Bonding, Insulation Analysis, Step / Contact, Z impedance...

## • General features

- Equipotential Bonding and Connectivity Testing with MicroOhm meter is just what needed to show reliable and stable results.
- HV Insulation Analysis with high EMC immunity, three wire connection with Guarded test leads in the set. Powerful generator with fast charging and discharging of Capacitive loads;
- Voltage Funnel during Fault Simulation case of ground fault or lightning strike around objects, analysing with Step Voltage and Contact Voltage measuring, Resistance and Soil Resistivity with Step / Contact System;
- Live Impedance and Fault Current Testing Conditions for Automatic Disconnection Evaluation with accurate results on Industrial Power Transformers and Generators;
- • Report Creator with powerful PC SW Tool HVLink PRO or MESM.

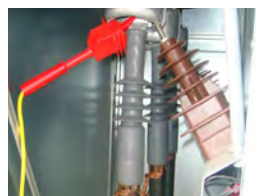
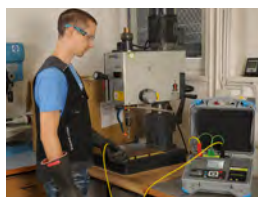


## • Advantages

- Equipotential Bonding with 4 wire MicroOhm meter with 2A, 10A or 100A battery operated generator with results in fine resolution up to 1 nano-Ohm;
- HV Insulation Analysis up to 10 kV, 3 wire connection with +, - and Guard, with PI, DAR, DD, Ramp test, Withstanding programmable procedure and Step Voltage. Graphical presentation of results R(t);
- Smallest Step / Contact Voltage System with wireless synchronized Voltmeters all in one solution, with powerful generator of up to 55 A, eliminating earth current noise even in low power operating mode. It is extremely safe operating on 50 V only which is important for testing in public area surrounding;
- Live Impedance 4 wire testing with test current of up to 290 A, Built-in Fuse Characteristics automatically calculated I<sub>sc</sub> max, I<sub>sc</sub> standard and Hot factor for I<sub>sc</sub> Min.

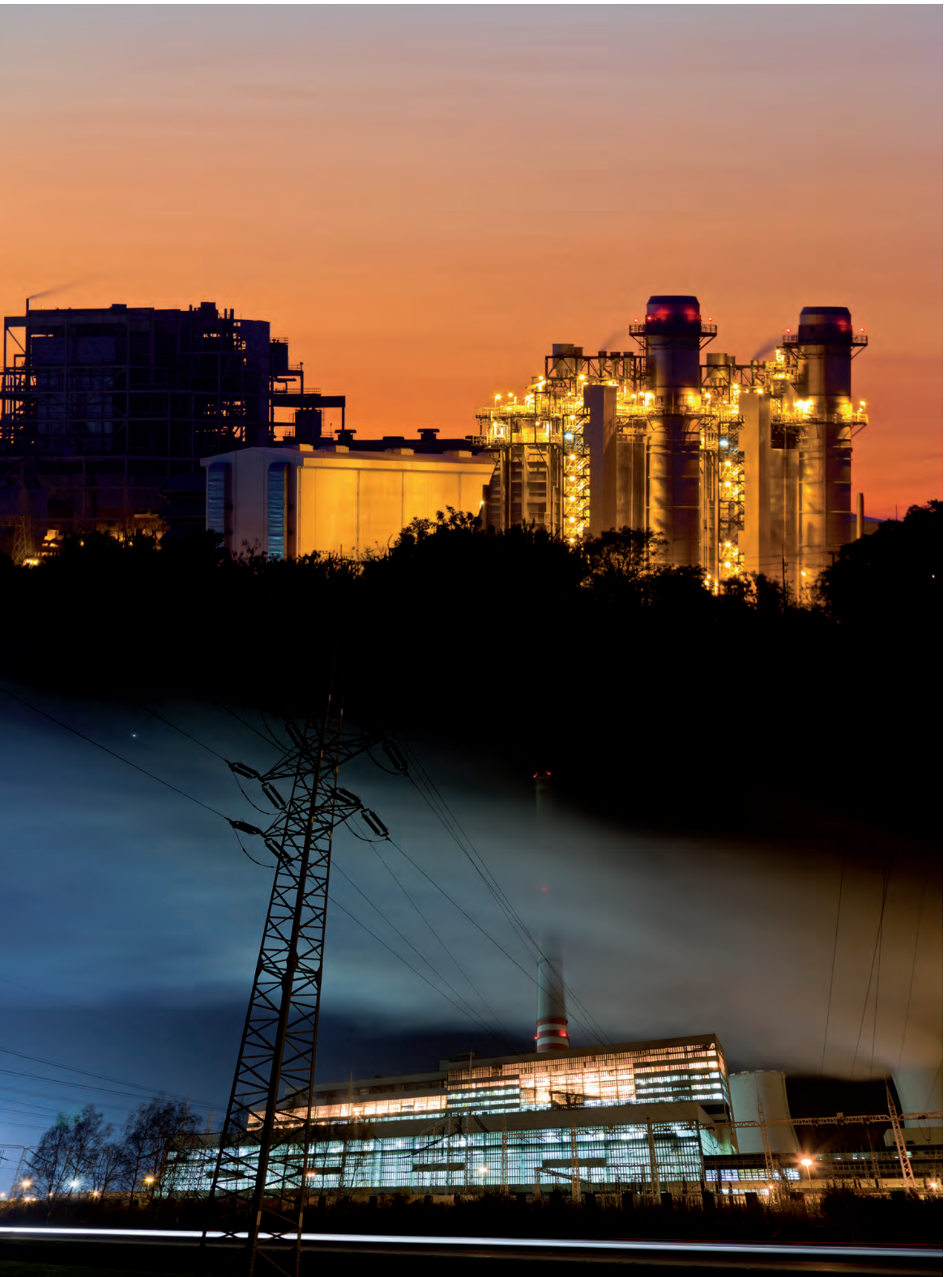
## • Applications

- Equipotential Bonding and Connectivity of bigger cross-section conductors, bars and metal stripes, connected in parallel.
- Testing of Automatic Disconnection Ability in case of Fault in Power Transformer, Fuse characteristics evaluation with 4-wire 300 A High-Current Testing.
- Insulation Characteristics of Charging and Discharging, Influence of temperature, dirt, humidity, mechanical and electrical stresses, high-energy radiation, Testing on Capacitive loads, Long Cables and Transformers.
- Insulation testing on separated systems of gas stations, pipes, ground metal plates and covers of oil tanks.
- Overvoltage and Surge Protection Periodical Testing,
- Earth and Ground systems, Soil resistivity, Lightning protection of Power Generators, Industrial Power Systems, Power Substations.
- Ground Networks Analysing of Antenna Towers, HV Power Distribution towers, Industrial Platforms, Power Transformers, Generators, PV systems etc, research on Earthing and Spreading of Voltage Funnels.



## • Selection guide

Features	Description	MI 3252 MicroOhm 100A	MI 3250 MicroOhm 10A	MI 3200 Teraohm XA 10kV	MI 3201 TeraOhm 5 kV Plus	MI 3280 DT Analyzer	MI 3290 Earth Analyzer	MI 3295 Step Contact Voltage
CODE		602100022	602100021	602100018	602100019	602100037	602100036	602100024
EARTH BOND	Test current range	100 A	10 A				200 mA	
	Resolution	1 nΩ	0.1 μΩ				10 mΩ	
	Single / Continuous mode	•	•				•	
	Inductive mode		•				•	
INSULATING ANALYSIS	Custom test shortcut			•			•	
	Test voltage range			500 VDC 10 KVDC	250 VDC ... 5 KVDC			
	Insulation resistance measuring range			10 TΩ	10 TΩ			
	Calculation of DD, DAR, PI, R(t)			•	•			
	Ramp voltage test			•	•			
	Step voltage test			•	•			
	Bar graph			•	•			
	Leakage current			•	•			
Automatic discharge			•	•				
EARTH SYSTEMS	Test current up to 55 A							•
	Autonomous step voltage meter						•	•
	Step & contact voltage						•	•
	Earth resistance 2W / 3W / 4W						• / • / •	- / - / •
	Resistance específica de tierra						• / •	• / -
	Specific earth resistance						•	
	Multi frequency method						•	
	High frequency method						• / •	
Stakeles 2 clamp method						•		
TRANSFORMERS CHECK	Coil resistance		•		•	•		
	Transformation range				•	•		
	Excitation current				•	•		
VOLTAGE	Voltage DC 600 V			•	•			
OTHER	Robust AC current rejection 4 mA							
	Noise immunity filter	•	•	•	•		•	•
	3-wire / 4-wire connection	- / •	- / •	- / •	• / -		• / •	- / •
	PASS / FAIL evaluation	•	•	•	•		•	•
	Temperature compensation		•					
Dual powered	Lead	NiMH	NiMH	NiMH		Li-Ion		
PC SW	PC SW	•	•	•	•		•	•
COMMUNICATION PORTS	RS232 / USB / BT	• / • / -	• / • / -	• / • / -	• / • / -		- / • / •	• / • / -







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## LOW VOLTAGE PROTECTION COMPONENTS



LOW VOLTAGE FUSES  
FUSE-HOLDERS  
SOLUTIONS FOR PHOTOVOLTAIC INSTALLATIONS

 **KPS**

# LOW VOLTAGE FUSES

## • Blade fuses NH 500/690V gG-gL

- Rated voltage 500/690 Vac.
- Breaking capacity 120 kA (500 Vca) / 50 kA (690Vac).
- Curve type gG-gL.
- According to standard IEC 60269-2.

Article	Code	EAN 13	Pack.
NH-00 16 A gG AC500/690V	900150005	8435394726229	3
NH-00 20 A gG AC500/690V	900150006	8435394726236	3
NH-00 32 A gG AC500/690V	900150007	8435394726243	3
NH-00 40 A gG AC500/690V	900150008	8435394726250	3
NH-00 50 A gG AC500/690V	900150009	8435394726267	3
NH-00 63 A gG AC500/690V	900150010	8435394726274	3
NH-00 80 A gG AC500/690V	900150011	8435394726281	3
NH-00 100 A gG AC500/690V	900150012	8435394726298	3
NH-00 125 A gG AC500/690V	900150013	8435394726304	3
NH-00 160 A gG AC500/690V	900150014	8435394726311	3
NH-0 32 A Gg AC500/690V	901100359	8435394722733	3
NH-0 40 A Gg AC500/690V	901100360	8435394722740	3
NH-0 50 A Gg AC500/690V	901100361	8435394722757	3
NH-0 63 A Gg AC500/690V	901100362	8435394722764	3
NH-0 80 A Gg AC500/690V	901100363	8435394722771	3
NH-0 100 A Gg AC500/690V	901100364	8435394722788	3
NH-0 125 A Gg AC500/690V	901100365	8435394722795	3
NH-0 160 A Gg AC500/690V	901100366	8435394722801	3
NH-1 25 A gG AC500/690V	900150015	8435394726328	3
NH-1 32 A gG AC500/690V	900150016	8435394726335	3
NH-1 40 A gG AC500/690V	900150017	8435394726342	3
NH-1 50 A gG AC500/690V	900150018	8435394726359	3
NH-1 63 A gG AC500/690V	900150019	8435394726366	3
NH-1 80 A gG AC500/690V	900150020	8435394726373	3
NH-1 100 A gG AC500/690V	900150021	8435394726380	3
NH-1 125 A gG AC500/690V	900150022	8435394726397	3
NH-1 160 A gG AC500/690V	900150023	8435394726403	3
NH-1 200 A gG AC500/690V	900150024	8435394726410	3
NH-1 250 A gG AC500/690V	900150025	8435394726427	3
NH-2 50 A gG AC500/690V	900150027	8435394726441	3
NH-2 63 A gG AC500/690V	900150028	8435394726458	3
NH-2 80 A gG AC500/690V	900150029	8435394726465	3
NH-2 100 A gG AC500/690V	900150030	8435394726472	3
NH-2 160 A gG AC500/690V	900150031	8435394726489	3
NH-2 200 A gG AC500/690V	900150032	8435394726496	3
NH-2 250 A gG AC500/690V	900150033	8435394726502	3
NH-2 300 A gG AC500/690V	900150034	8435394726519	3
NH-2 315 A gG AC500/690V	900150035	8435394726526	3
NH-2 400 A gG AC500/690V	900150036	8435394726533	3
NH-3 250 A gG AC500/690V	900150037	8435394726540	3
NH-3 315 A gG AC500/690V	900150038	8435394726557	3
NH-3 355 A gG AC500/690V	900150039	8435394726564	3
NH-3 400 A gG AC500/690V	900150040	8435394726571	3
NH-3 500 A gG AC500/690V	900150041	8435394726588	3
NH-3 630 A gG AC500/690V	900150042	8435394726595	3
NH-4 500 A gG AC500/690V	900150043	8435394726601	1
NH-4 600 A gG AC500/690V	900150044	8435394726618	1
NH-4 800 A gG AC500/690V	900150045	8435394726625	1
NH-4 1250 A gG AC500/690V	900150047	8435394726649	1
NH-4 1600 A gG AC500/690V	900150048	8435394726656	1



## LOW VOLTAGE FUSES

### • Blade fuses NH 500/690V aM

- Rated voltage 690 Vac.
- Breaking capacity 120 kA (500 Vac) / 50kA (690 Vac).
- Curve type aM.
- According to standard IEC 60269-2.

Article	Code	EAN 13	Pack.
NH-00 16 A aM AC500V	901100200	8435394726663	3
NH-00 20 A aM AC500V	901100201	8435394726670	3
NH-00 25 A aM AC500V	901100202	8435394726687	3
NH-00 32 A aM AC500V	901100203	8435394726694	3
NH- 00 35 A aM AC500V	901100204	8435394726700	3
NH- 00 40 A aM AC500V	901100205	8435394726717	3
NH- 00 50 A aM AC500V	901100206	8435394726724	3
NH-00 63 A aM AC500V	901100207	8435394726731	3
NH-00 80 A aM AC500V	901100208	8435394726748	3
NH-00 100 A aM AC500V	901100209	8435394726755	3
NH-00 125 A aM AC500V	901100210	8435394726762	3
NH-1 25 A aM AC500V	901100211	8435394726779	3
NH-1 32 A aM AC500V	901100212	8435394726786	3
NH-1 35 A aM AC500V	901100213	8435394726793	3
NH-1 40 A aM AC500V	901100214	8435394726809	3
NH-1 50 A aM AC500V	901100215	8435394726816	3
NH-1 63 A aM AC500V	901100216	8435394726823	3
NH-1 80 A aM AC500V	901100217	8435394726830	3
NH-1 100 A aM AC500V	901100218	8435394726847	3
NH-1 125 A aM AC500V	901100219	8435394726854	3
NH-1 160 A aM AC500V	901100220	8435394726861	3
NH-1 200 A aM AC500V	901100221	8435394726878	3
NH-1 224 A aM AC500V	901100222	8435394726885	3
NH-1 250 A aM AC500V	901100223	8435394726892	3
NH-2 35 A aM AC500V	901100224	8435394726908	3
NH-2 50 A aM AC500V	901100225	8435394726915	3
NH-2 63 A aM AC500V	901100226	8435394726922	3
NH-2 80 A aM AC500V	901100227	8435394726939	3
NH-2 100 A aM AC500V	901100228	8435394726946	3
NH-2 125 A aM AC500V	901100229	8435394726953	3
NH-2 160 A aM AC500V	901100230	8435394726960	3
NH-2 200 A aM AC500V	901100231	8435394726977	3
NH-2 224 A aM AC500V	901100232	8435394726984	3
NH-2 250 A aM AC500V	901100233	8435394726991	3
NH-2 300 A aM AC500V	901100234	8435394727004	3
NH-2 315 A aM AC500V	901100235	8435394727011	3
NH-2 355 A aM AC500V	901100236	8435394727028	3
NH-2 400 A aM AC500V	901100237	8435394727035	3
NH-3 250 A aM AC500V	901100238	8435394727042	3
NH-3 315 A aM AC500V	901100239	8435394727059	3
NH- 3 355 A aM AC500V	901100240	8435394727066	3
NH-3 400 A aM AC500V	901100241	8435394727073	3
NH-3 500 A aM AC500V	901100242	8435394727080	3
NH-3 630 A aM AC500V	901100243	8435394727097	3



# LOW VOLTAGE FUSES

## • Blade fuses NH 500/690V gR

- Rated voltage 500/690 Vca
- Breaking capacity 120 kA (500 Vca) / 50 kA (690 Vca)
- Curve type gR
- According to standard IEC 60269-4

Article	Code	EAN 13	Pack.
NH-00 25A gR AC500/690V	901100200	-	5
NH-00 32A gR AC500/690V	901100201	-	5
NH-00 40A gR AC500/690V	901100202	-	5
NH-00 50A gR AC500/690V	901100203	-	5
NH-00 63A gR AC500/690V	901100204	-	5
NH-00 80A gR AC500/690V	901100205	-	5
NH-00 100A gR AC500/690V	901100206	-	5
NH-1 63A gR AC500/690V	901100207	-	3
NH-1 80A gR AC500/690V	901100208	-	3
NH-1 100A gR AC500/690V	901100209	-	3
NH-1 125A gR AC500/690V	901100210	-	3
NH-1 160A gR AC500/690V	901100211	-	3
NH-1 200A gR AC500/690V	901100212	-	3
NH-1 250A gR AC500/690V	901100213	-	3
NH-2 250A gR AC500/690V	901100214	-	3
NH-2 315A gR AC500/690V	901100215	-	3
NH-2 400A gR AC500/690V	901100216	-	3
NH-3 400A gR AC500/690V	901100217	-	1
NH-3 500A gR AC500/690V	901100218	-	1
NH-3 630A gR AC500/690V	901100219	-	1

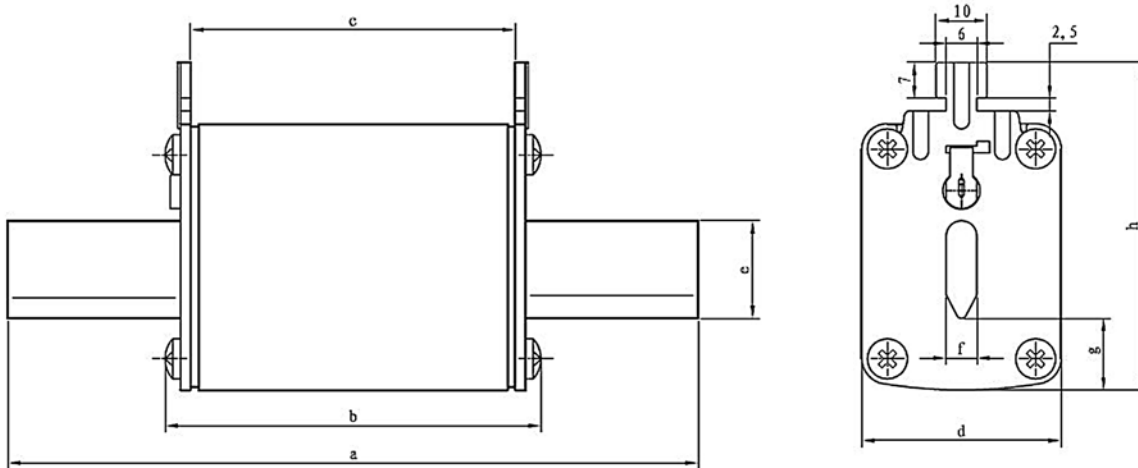
## • Blade fuses NH 500/690V aR

- Rated voltage 500/690 Vca
- Breaking capacity 120 kA (500 Vca) / 50 kA (690 Vca)
- Curve type aR
- According to standard IEC 60269-4

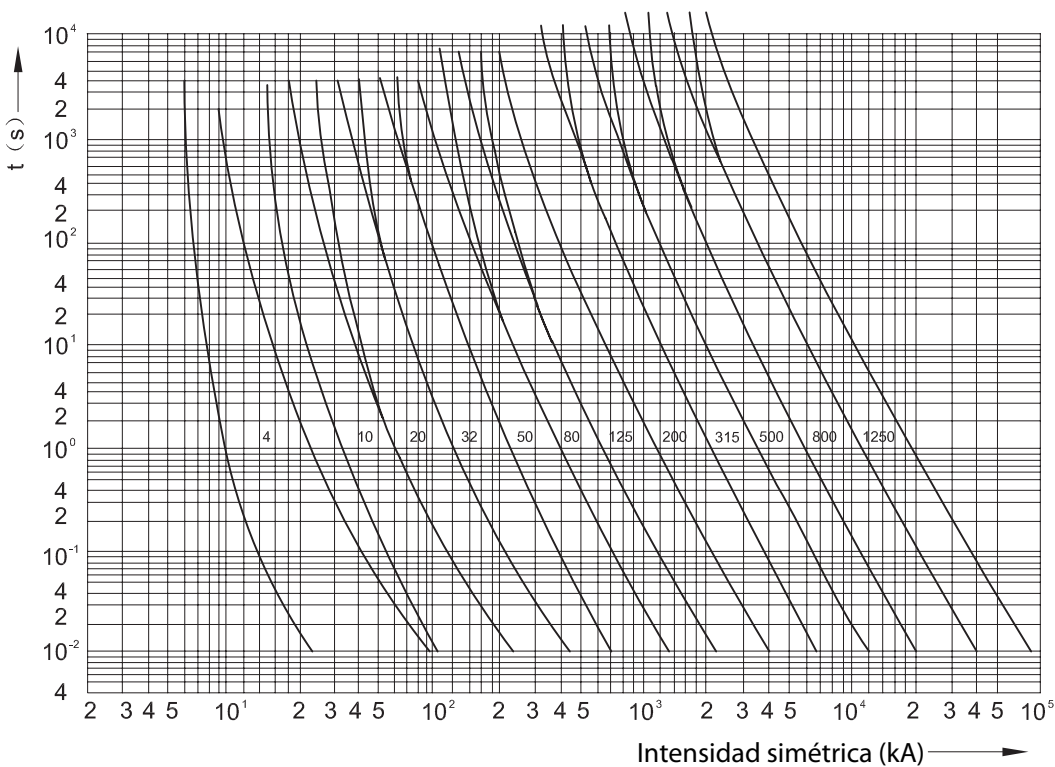
Article	Code	EAN 13	Pack.
NH-00 25A aR AC500/690V	900250021	-	5
NH-00 32A aR AC500/690V	900250022	-	5
NH-00 40A aR AC500/690V	900250023	-	5
NH-00 50A aR AC500/690V	900250024	-	5
NH-00 63A aR AC500/690V	900250025	-	5
NH-00 80A aR AC500/690V	900250026	-	5
NH-00 100A aR AC500/690V	900250027	-	5
NH-1 63A aR AC500/690V	900250028	-	3
NH-1 80A aR AC500/690V	900250029	-	3
NH-1 100A aR AC500/690V	900250030	-	3
NH-1 125A aR AC500/690V	900250031	-	3
NH-1 160A aR AC500/690V	900250032	-	3
NH-1 200A aR AC500/690V	900250033	-	3
NH-1 250A aR AC500/690V	900250034	-	3
NH-2 250A aR AC500/690V	900250035	-	3
NH-2 315A aR AC500/690V	900250036	-	3
NH-2 400A aR AC500/690V	900250037	-	3
NH-3 400A aR AC500/690V	900250038	-	1
NH-3 500A aR AC500/690V	900250039	-	1
NH-3 630A aR AC500/690V	900250040	-	1

# LOW VOLTAGE FUSES

## • Blade fuses NH



Article	Dimensions							
	a	b	c	d	e	f	g	h
NH00C	78.5±1.5	53.5	45	20	15	6	8	53
NH00	78.5±1.5	54	46	29	15	6	12	60
NH0	125±2.5	68	60	29	15	6	12	60
NH01	135±2.5	72	63	29	15	6	12	64
NH1	135±2.5	72	63	40	20	6	14	64
NH02	150±2.5	72	63	40	20	6	14	73
NH2	150±2.5	74	63	53	25	6	14	73
NH03	150±2.5	74	63	53	25	6	14	85
NH3	150±2.5	74	63	72	32	6	18	89



# LOW VOLTAGE FUSES

## • Cylindrical fuses

- Rated voltage 500 Vca.
- Breaking capacity 100 kA, except size 8x32 20 kA.
- Curve type gG.
- According to standard IEC 60269-2.

Article	Code	EAN 13	Pack.
8x32 2 A gG AC400V	901100300	8435394722146	10
8x32 4 A gG AC400V	901100301	8435394722153	10
8x32 6 A gG AC400V	901100302	8435394722160	10
8x32 10 A gG AC400V	901100303	8435394722177	10
8x32 16 A gG AC400V	901100304	8435394722184	10
8x32 20 A gG AC400V	901100305	8435394722191	10
10x38 2 A gG AC500V	901100306	8435394722207	10
10x38 4 A gG AC500V	901100307	8435394722214	10
10x38 6 A gG AC500V	901100308	8435394722221	10
10x38 8 A gG AC500V	901100309	8435394722238	10
10x38 10 A gG AC500V	901100310	8435394722245	10
10x38 12 A gG AC500V	901100311	8435394722252	10
10x38 16 A gG AC500V	901100312	8435394722269	10
10x38 20 A gG AC500V	901100313	8435394722276	10
10x38 25 A gG AC500V	901100314	8435394722283	10
10x38 32 A gG AC500V	901100384	8435394722986	10
14x51 2 A gG AC500V	901100315	8435394722290	10
14x51 4 A gG AC500V	901100316	8435394722306	10
14x51 6 A gG AC500V	901100317	8435394722313	10
14x51 8 A gG AC500V	901100318	8435394722320	10
14x51 10 AgG AC500V	901100319	8435394722337	10
14x51 16 A gG AC500V	901100320	8435394722344	10
14x51 20 A gG AC500V	901100321	8435394722351	10
14x51 25 A gG AC500V	901100322	8435394722368	10
14x51 32 A gG AC500V	901100323	8435394722375	10
14x51 40 A gG AC500V	901100324	8435394722382	10
14x51 50 A gG AC500V	901100325	8435394722399	10
22x58 10 A gG AC500V	901100326	8435394722405	10
22x58 16 A gG AC500V	901100327	8435394722412	10
22x58 20 A gG AC500V	901100328	8435394722429	10
22x58 25 A gG AC500V	901100329	8435394722436	10
22x58 32 A gG AC500V	901100330	8435394722443	10
22x58 40 A gG AC500V	901100331	8435394722450	10
22x58 50 A gG AC500V	901100332	8435394722467	10
22x58 63 A gG AC500V	901100333	8435394722474	10
22x58 80 A gG AC500V	901100334	8435394722481	10
22x58 100 A gG AC500V	901100335	8435394722498	10





## LOW VOLTAGE FUSES

### • Cylindrical fuses gG with blow indicator

- Rated voltage 500 Vca.
- Breaking capacity 100 kA, except 8x32 size 20 kA.
- Curve type gG.
- According to standard IEC 60269-2.

Article	Code	EAN 13	Pack.
8x32 2 A gG AC400V C/I	901100338	8435394722528	10
8x32 4 A gG AC400V C/I	901100340	8435394722542	10
8x32 6 A gG AC400V C/I	901100341	8435394722559	10
8x32 10 A gG AC400V C/I	901100336	8435394722504	10
8x32 16 A gG AC400V C/I	901100337	8435394722511	10
8x32 20 A gG AC400V C/I	901100339	8435394722535	10
10x38 2 A gG AC500V C/I	901100344	8435394722580	10
10x38 4 A gG AC500V C/I	901100346	8435394722603	10
10x38 6 A gG AC500V C/I	901100347	8435394722610	10
10x38 10 A gG AC500V C/I	901100342	8435394722566	10
10x38 16 A gG AC500V C/I	901100343	8435394722573	10
10x38 20 A gG AC500V C/I	901100345	8435394722597	10
10x38 25 A gG AC500V C/I	901100348	8435394722627	10
10x38 32 A gG AC500V C/I	901100349	8435394722634	10
14x51 25 A gG AC500V C/I	901100386	8435394723006	10
14x51 32 A gG AC500V C/I	901100387	8435394723013	10
14x51 40 A gG AC500V C/I	901100350	8435394722641	10
14x51 50 A gG AC500V C/I	901100351	8435394722658	10
22x58 100 A gG AC500V C/I	901100352	8435394722665	10
22x58 125 A gG AC500V C/I	901100353	8435394722672	10
22x58 32 A gG AC500V C/I	901100354	8435394722689	10
22x58 40 A gG AC500V C/I	901100355	8435394722696	10
22x58 50 A gG AC500V C/I	901100356	8435394722702	10
22x58 63 A gG AC500V C/I	901100357	8435394722719	10
22x58 80 A gG AC500V C/I	901100358	8435394722726	10



# LOW VOLTAGE FUSES

## •Cylindrical fuses aM

- Rated voltage 500 Vca.
- Breaking capacity 100 kA, except 8x32 size 20 kA.
- Curve type aM.
- According to standard IEC 60269-2.

Article	Code	EAN 13	Pack.
10x38 2A aM	901100367	8435394722818	20
10x38 4A aM	901100368	8435394722825	20
10x38 6A aM	901100369	8435394722832	20
10x38 10A aM	901100370	8435394722849	20
10x38 12A aM	901100371	8435394722856	20
10x38 16A aM	901100372	8435394722863	20
10x38 20A aM	901100373	8435394722870	20
10x38 25A aM	901100374	8435394722887	20
10x38 32A aM	901100375	8435394722894	20
14x51 32A aM	901100376	8435394722900	20
14x51 40A aM	901100377	8435394722917	20
14x51 50A aM	901100378	8435394722924	20
22x58 40A aM	901100379	8435394722931	20
22x58 50A aM	901100380	8435394722948	20
22x58 63A aM	901100381	8435394722955	20



## •Cylindrical fuses 690V gR

- Rated voltage 690 Vca
- Breaking capacity 50 kA (690 Vca)
- Curve type gR
- According to standard IEC 60269-4

Article	Code	EAN 13	Pack.
10x38 2A gR AC690V	900250041	-	10
10x38 4A gR AC690V	900250042	-	10
10x38 6A gR AC690V	900250043	-	10
10x38 10A gR AC690V	900250044	-	10
10x38 12A gR AC690V	900250045	-	10
10x38 16A gR AC690V	900250046	-	10
10x38 20A gR AC690V	900250047	-	10
10x38 25A gR AC690V	900250048	-	10
10x38 32A gR AC690V	900250049	-	10
14x51 25A gR AC690V	900250050	-	10
14x51 32A gR AC690V	900250051	-	10
14x51 40A gR AC690V	900250052	-	10
14x51 50A gR AC690V	900250053	-	10
22x58 40A gR AC690V	900250054	-	10
22x58 50A gR AC690V	900250055	-	10
22x58 63A gR AC690V	900250056	-	10
22x58 80A gR AC690V	900250057	-	10
22x58 100A gR AC690V	900250058	-	10
22x58 125A gR AC690V	900250059	-	10

# LOW VOLTAGE FUSES

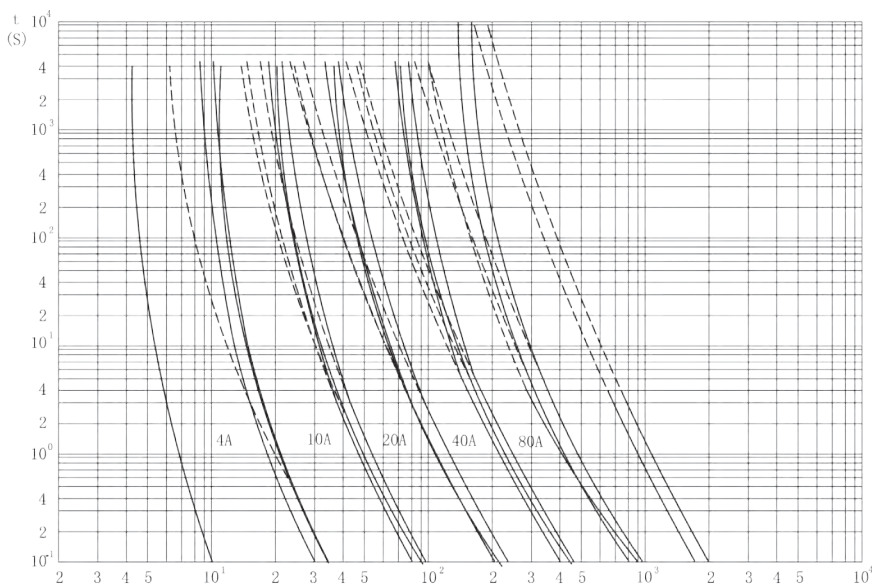
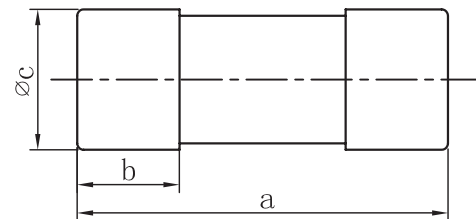
## • Cylindrical fuses 690V aR

- Rated voltage 690 Vca
- Breaking capacity 50 kA (690 Vca)
- Curve type aR
- According to standard IEC 60269-4

Article	Code	EAN 13	Pack.
10x38 2A aR AC690V	900250060	-	10
10x38 4A aR AC690V	900250061	-	10
10x38 6A aR AC690V	900250062	-	10
10x38 10A aR AC690V	900250063	-	10
10x38 12A aR AC690V	900250064	-	10
10x38 16A aR AC690V	900250065	-	10
10x38 20A aR AC690V	900250066	-	10
10x38 25A aR AC690V	900250067	-	10
10x38 32A aR AC690V	900250068	-	10
14x51 25A aR AC690V	900250069	-	10
14x51 32A aR AC690V	900250070	-	10
14x51 40A aR AC690V	900250071	-	10
14x51 50A aR AC690V	900250072	-	10
22x58 40A aR AC690V	900250073	-	10
22x58 50A aR AC690V	900250074	-	10
22x58 63A aR AC690V	900250075	-	10
22x58 80A aR AC690V	900250076	-	10
22x58 100A aR AC690V	900250077	-	10
22x58 125A aR AC690V	900250078	-	10

Dimensions of cylindrical fuses:

Article	(W)	Dimensions		
		a	b	c
8x32		31.5±0.5	6.3	8.5±0.1
10x38	3	38±0.6	10	10.3±0.1
14x51	5	51+0.6-1	12	14.3±0.1
22x58	9.5	57+0.1-2	16	22.2±0.1



# LOW VOLTAGE FUSES

## • Cylindrical glass fuses

- Rated voltage 125/250 Vca.
- Breaking capacity 100 A.
- Curve type F.
- According to standard UL-248.

Article	Code	EAN 13	Pack.
5x20 0,5 A	901201000	8435394727783	100
5x20 1 A	901201001	8435394727790	100
5x20 1,6 A	901201002	8435394727806	100
5x20 2 A	901201003	8435394727813	100
5x20 2,5 A	901201004	8435394727820	100
5x20 3 A	901201005	8435394727837	100
5x20 3,15 A	901201006	8435394727844	100
5x20 4 A	901201007	8435394727851	100
5x20 5 A	901201008	8435394727868	100
5x20 6 A	901201009	8435394727875	100
5x20 6,3 A	901201010	8435394727882	100
5x20 8 A	901201011	8435394727899	100
5x20 10 A	901201012	8435394727905	100
5x20 12 A	901201013	8435394727912	100
5x20 16 A	901201014	8435394727929	100
5x20 20 A	901201015	8435394727936	100
5x20 0,5 A	901201016	8435394727943	100
6x32 1 A	901201017	8435394727950	100
6x32 1,6 A	901201018	8435394727967	100
6x32 2 A	901201019	8435394727974	100
6x32 2,5 A	901201020	8435394727981	100
6x32 3 A	901201021	8435394727998	100
6x32 3,15 A	901201022	8435394728001	100
6x32 4 A	901201023	8435394728018	100
6x32 5 A	901201024	8435394728025	100
6x32 6 A	901201025	8435394728032	100
6x32 6,3 A	901201026	8435394728049	100
6x32 8 A	901201027	8435394728056	100
6x32 10 A	901201028	8435394728063	100
6x32 12 A	901201029	8435394728070	100
6x32 16 A	901201030	8435394728087	100
6x32 20 A	901201031	8435394728094	100

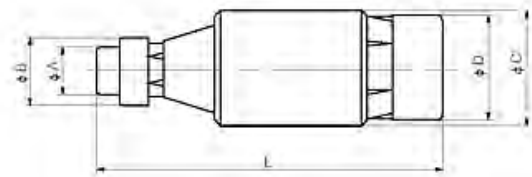


# LOW VOLTAGE FUSES

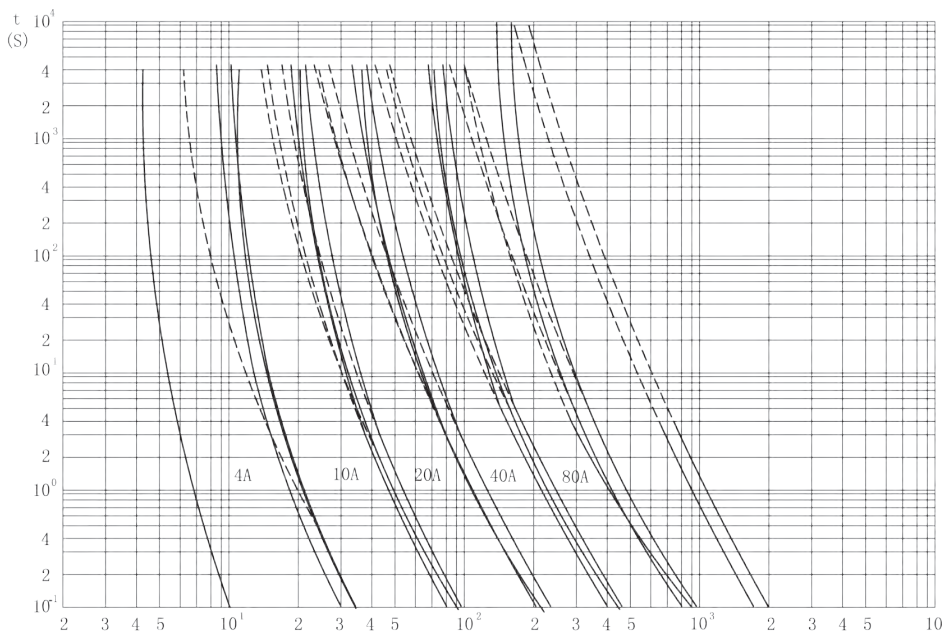
## • Fuses type DO

- Rated voltage: 400V
- Breaking capacity: 50KA
- Curve type gG
- According to IEC 60269-3

Article	Code	EAN 13	Pack.
D01 4A 400V	901100500	8435394727394	10
D01 6A 400V	901100501	8435394727400	10
D01 10A 400V	901100502	8435394727417	10
D01 16A 400V	901100503	8435394727424	10
D02 20A 400V	901100504	8435394727431	10
D02 25A 400V	901100505	8435394727448	10
D02 35A 400V	901100506	8435394727455	10
D02 50A 400V	901100507	8435394727462	10
D02 63A 400V	901100508	8435394727479	10
D03 80A 400V	901100509	8435394727486	10
D03 100A 400V	901100510	8435394727493	10



Size	Rated voltage (V)	Rated current (V)	Weight (g)	Dimensions				
				Ø A	Ø B	Ø C	Ø D	L
D01	400	2-6	12.7	5	7.3	10.6	10	36
		10		5	8.5	10.6	10	36
		16		5	9.7	10.6	10	36
D02	400	20	13.8	8.5	11	15	14	36
		25		8.5	12	15	14	36
		35		8.5	13.3	15	14	36
		50		8.5	14.5	15	14	36
D03	400	63	15.6	8.5	16	15	14	36
		80		17	22	22	21	43
		100		17	25	22	21	43

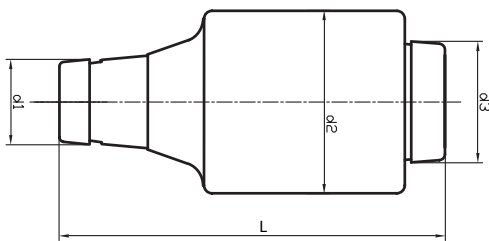


# LOW VOLTAGE FUSES

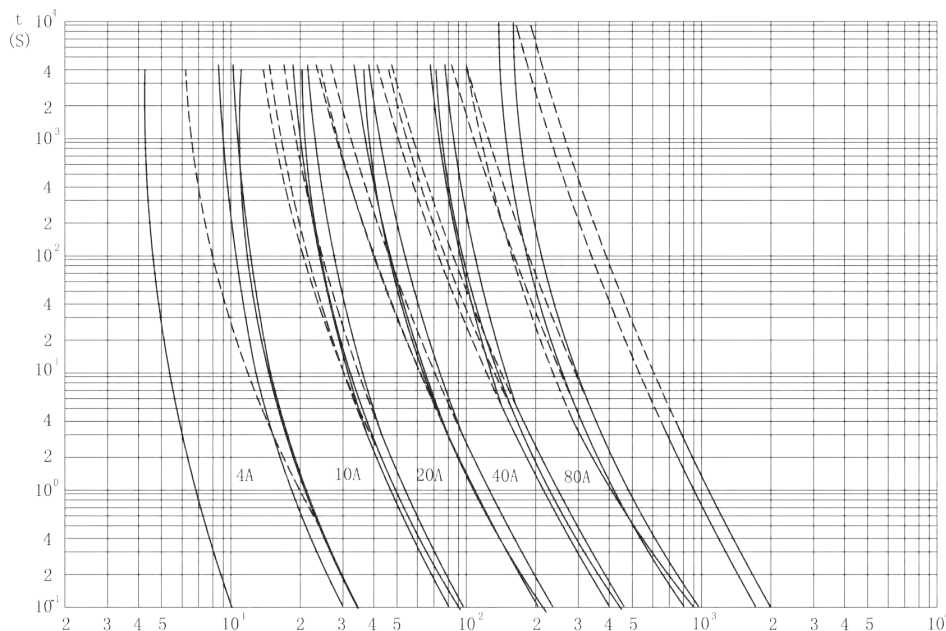
## • Fuses type D

- Rated voltage 500 Vca.
- Breaking capacity 50 kA.
- Curve type gG.
- According to IEC 60269-3.

Article	Code	EAN 13	Pack.
DII 6A gG 500V	901100390	8435394727127	20
DII 10A gG 500V	901100391	8435394727134	20
DII 16A gG 500V	901100392	8435394727141	20
DII 20A gG 500V	901100393	8435394727158	20
DII 25A gG 500V	901100394	8435394727165	20
DIII 35A gG 500V	901100395	8435394727172	20
DIII 50A gG 500V	901100396	8435394727189	20
DIII 63A gG 500V	901100397	8435394727196	20



Article	Dimensions				
	(A)	d1	d2	d3	L
DII	2-6	6	22	15	50
	8-10	8	22	15	50
	16	10	22	15	50
	20	12	22	15	50
	25	14	22	15	50
DIII	35	16	27	20	50
	50	18	27	20	50
	60	20	27	20	50



# LOW VOLTAGE FUSES

## • Blade fuses NH-1 1000 Vcc gPV

- Rated voltage 1000 Vcc.
- Breaking capacity 50 kA.
- Curve type gPV.
- According to standard IEC 60269-6.

Article	Code	EAN 13	Pack.
NH-1 32A gPV 1000 Vcc	901100700	8435394727509	10
NH-1 40A gPV 1000 Vcc	901100701	8435394727516	10
NH-1 50A gPV 1000 Vcc	901100702	8435394727523	10
NH-1 63A gPV 1000 Vcc	901100703	8435394727530	10
NH-1 80A gPV 1000 Vcc	901100704	8435394727547	10
NH-1 100A gPV 1000 Vcc	901100705	8435394727554	10
NH-1 125A gPV 1000 Vcc	901100706	8435394727561	10
NH-1 160A gPV 1000 Vcc	901100707	8435394727578	10

## • Blade fuses NH-1XL 1000 Vcc gPV

- Rated voltage 1000 Vcc.
- Breaking capacity 50 kA.
- Curve type gPV.
- According to standard IEC 60269-6.

Article	Code	EAN 13	Pack.
NH-1XL 80A gPV 1000 Vdc	901100750	8435394729220	10
NH-1XL 100A gPV 1000 Vdc	901100751	8435394729237	10
NH-1XL 125A gPV 1000 Vdc	901100752	8435394729244	10
NH-1XL 160A gPV 1000 Vdc	901100753	8435394729251	10
NH-1XL 200A gPV 1000 Vdc	901100754	8435394729268	10
NH-1XL 250A gPV 1100 Vdc	901100755	8435394729275	10

## • Blade fuses NH-2XL 1000 Vcc gPV

- Rated voltage 1000 Vcc.
- Breaking capacity 50 kA.
- Curve type gPV.
- According to standard IEC 60269-6.

Article	Code	EAN 13	Pack.
NH-2XL 125A gPV 1100 Vdc	901100756	8435394729282	10
NH-2XL 160A gPV 1100 Vdc	901100757	8435394729299	10
NH-2XL 200A gPV 1100 Vdc	901100758	8435394729305	10
NH-2XL 250A gPV 1100 Vdc	901100759	8435394729312	10
NH-2XL 315A gPV 1100 Vdc	901100760	8435394729329	10
NH-2XL 350A gPV 1100 Vdc	901100761	8435394729336	10
NH-2XL 400A gPV 1100 Vdc	901100762	8435394729343	10

## • Blade fuses NH-3L 1000 Vcc gPV

- Rated voltage 1000 Vcc.
- Breaking capacity 50 kA.
- Curve type gPV.
- According to standard IEC 60269-6.

Article	Code	EAN 13	Pack.
NH-3L 315A gPV 1000 Vdc	901100763	8435394729350	10
NH-3L 400A gPV 1000 Vdc	901100764	8435394729367	10
NH-3L 500A gPV 1000 Vdc	901100765	8435394729374	10
NH-3L 630A gPV 1000 Vdc	901100766	8435394729381	10



# LOW VOLTAGE FUSES

## •Cylindrical fuses gPV

- Rated voltage 1000 Vcc.
- Breaking capacity 20 kA.
- Curve type gPV.
- According to IEC 60269-6.

Article	Code	EAN 13	Pack.
10x38 2 A gPV 1000 Vcc	901200100	8435394727585	10
10x38 4 A gPV 1000 Vcc	901200101	8435394727592	10
10x38 6 A gPV 1000 Vcc	901200102	8435394727608	10
10x38 8 A gPV 1000 Vcc	901200103	8435394727615	10
10x38 10 A gPV 1000 Vcc	901200104	8435394727622	10
10x38 12 A gPV 1000 Vcc	901200105	8435394727639	10
10x38 16 A gPV 1000 Vcc	901200106	8435394727646	10
10x38 20 A gPV 1000 Vcc	901200107	8435394727653	10
10x38 20 A gPV 1000 Vcc	901200108	8435394727660	10
10x38 25 A gPV 1000 Vcc	901200109	8435394727677	10



## •Cylindrical fuses gR

- Rated voltage 690 Vca.
- Breaking capacity 20 kA.
- Curve type gR.
- According to IEC 60269-4.

Article	Code	EAN 13	Pack.
10x38 2 A 690Vcc gR	901200200	8435394727707	10
10x38 4 A 690Vcc gR	901200201	8435394727714	10
10x38 6 A 690Vcc gR	901200202	8435394727721	10
10x38 8 A 690Vcc gR	901200203	8435394727738	10
10x38 10 A 690Vcc gR	901200204	8435394727745	10
10x38 12 A 690Vcc gR	901200205	8435394727752	10
10x38 16 A 690Vcc gR	901200206	8435394727769	10
10x38 20 A 690Vcc gR	901200207	8435394727776	10





# FUSE-HOLDER BASES

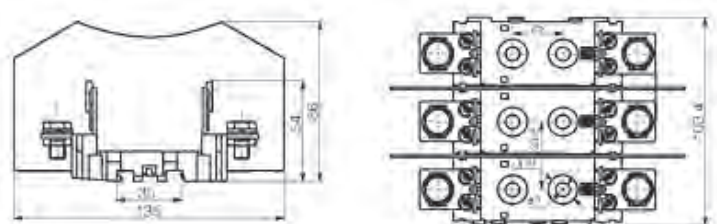
## • Bases for NH blade fuses

- Rated voltage 690 Vca.
- According to standard IEC 60269-2.

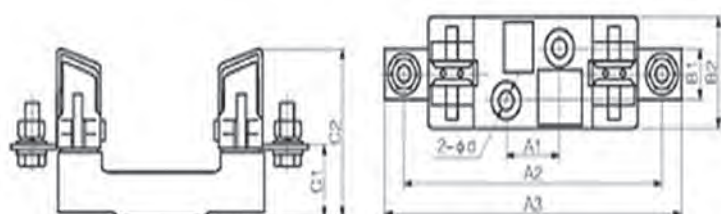
Article	Code	EAN 13	Pack.
Base NH-00 690V	901200000	-	1
Base NH-0 690 V	901100401	8435394727233	1
Base NH-1 690V	901200001	-	1
Base NH-2 690V	901200002	-	1
Base NH-3 690V	901200003	-	1
Base NH-4 690V	901100402	8435394727240	1
Base 3-NH-00 690 V	901100403	8435394727257	1
Base 3-NH-1 690 V	901100404	8435394727264	1
Base 3-NH-2 690 V	901100405	8435394727271	1
Base 3-NH-3 690 V	901100406	8435394727288	1



Figure 1



Size	Rated voltage (V)	Current (A)
NH-00	690	160



Size	A1	A2	A3	B1	B2	C1	C2	d
NH-1	25	175	200	30	58	38	84	10,5
NH-2	25	200	225	30	60	38	100	10,5
NH-3	25	210	250	30	60	40	105	10,5

## FUSE-HOLDER BASES

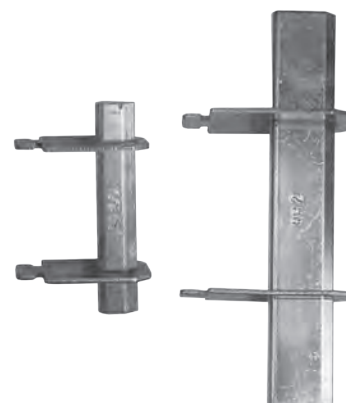
### • Insulating separators for NH fuse-holder bases

Article	Code	EAN 13	Pack.
Separator NH-00	901100512	-	1
Separator NH-1	901100513	-	1
Separator NH-2	901100514	-	1
Separator NH-3	901100515	-	1



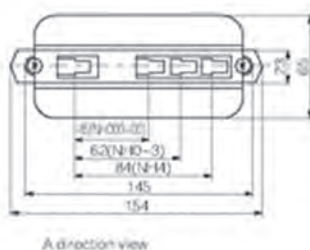
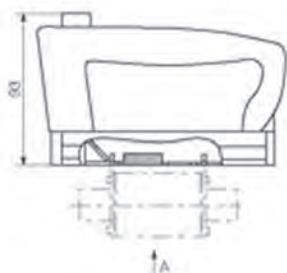
### • Neutral blades for NH fuse-holder bases

Article	Code	EAN 13	Pack.
Neutral blade NH-00	901990103	-	10
Neutral blade NH-0	901100398	-	10
Neutral blade NH-1	901990104	-	10
Neutral blade NH-2	901990105	-	10
Neutral blade NH-3	901100399	-	10
Neutral blade NH-3	901100400	-	10



### • NH fuses extractor handle

Article	Code	EAN 13	Pack.
Extractor handle	901100250	8435394727295	1

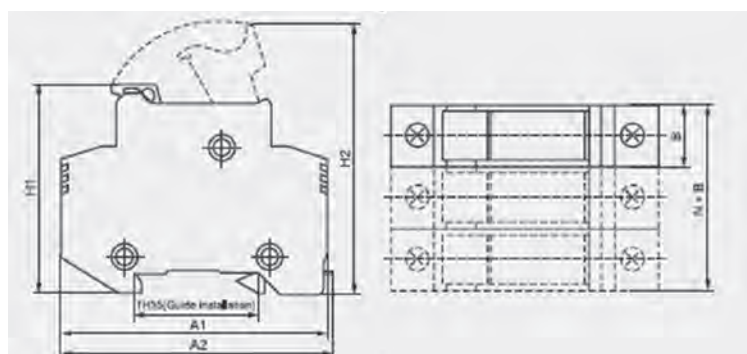


# FUSE-HOLDER BASES

## • Fuse-holder bases for cylindrical fuses rail mounting

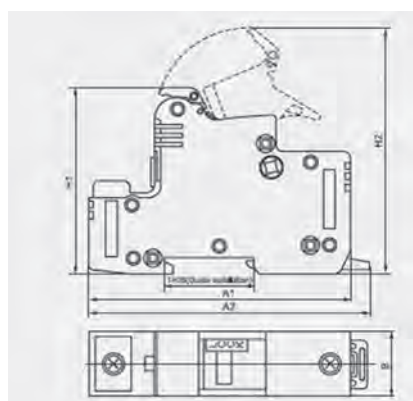
- Rated voltage 690 Vac / 1000 Vcc
- According to standard IEC 60269-2.

Article	Code	EAN 13	Pack.
Fuse-holder base 8x32 1P F/Rail	902200100	8435394728162	10
Fuse-holder base 8x32 2P F/Rail	902200101	8435394728179	10
Fuse-holder base 10x38 F/Rail	902200003	8435394723044	10
Fuse-holder base 10x38 1P F/Rail I/Fus	902200111	8435394728278	10
Fuse-holder base 10x38 2P F/Rail	902200102	8435394728186	10
Fuse-holder base 10x38 3P F/Rail	902200103	8435394728193	10
Fuse-holder base 10x38 4P F/Rail	902200104	8435394728209	10
Fuse-holder base 14x51 F/Rail	902200004	8435394723051	10
Fuse-holder base 14x51 2P F/Rail	902200105	8435394728216	10
Fuse-holder base 14x51 3P F/Rail	902200106	8435394728223	10
Fuse-holder base 14x51 4P F/Rail	902200107	8435394728230	10
Fuse-holder base 22x58 F/Rail	902200005	8435394723068	10
Fuse-holder base 22x58 2P F/Rail	902200108	8435394728247	10
Fuse-holder base 22x58 3P F/Rail	902200109	8435394728254	10
Fuse-holder base 22x58 4P F/Rail	902200110	8435394728261	10



Dimensions (mm):

Size	A1	A2	B	H1	H2	P (g)
8x32	80	82	18	60	78	59
10x38	80	82	18	60	78	59



Dimensions (mm):

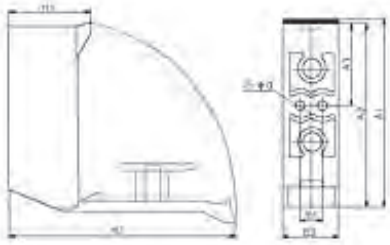
Size	A1	A2	B	H1	H2	P (g)
14x51	108	115	27	78	100	114
22x58	126	134	36	78	104	182

# FUSE-HOLDER BASES

## • Fuse-holder bases for cylindrical fuses plate mounting

- Rated voltage 690 Vac
- According to standard IEC 60269-2 .

Article	Code	EAN 13	Pack.
Cylindrical fuse-holder 14x51	902200006	8435394725710	10
Cylindrical fuse-holder 22x58	902200007	8435394725727	10



Size	A1	A2	A3	B1	B2	H1	H2	d ø
14x51	98.5	95.5	42.5	12	30	45	123	6
22x58	107.5	103.5	48.5	18	35	59	142	6

## • Neutral tubes for cylindrical fuse-holder bases

- Rated voltage 690 Vac / 1000 Vcc
- According to standard IEC 60269-2

Article	Code	EAN 13	Pack.
Neutral tube 10x38	901990100	8435394728100	10
Neutral tube 14x51	901990101	8435394728117	10
Neutral tube 22x58	901990102	8435394728124	10



## FUSE-HOLDER BASES

### • Fuse-holder bases for DO fuses

- Rated voltage 400 V
- Platen, rail and plate mounting.
- According to standard IEC 60269-2

Article	Code	EAN 13	Pack.
Base D02 F/Platen	901100407	8435394727295	10
Base D02 F/Rail	901100408	8435394727301	10
Base D02 F/Plate	901100409	8435394727318	10
Base D03 F/Platen	901100410	8435394727325	10
Base D03 F/Rail	901100411	8435394727332	10
Base D03 F/Plate	901100412	8435394727349	10



### • Caps for type DO fuse-holder bases

- Rated voltage 400 V
- According to standard IEC 60269-2

Article	Code	EAN 13	Pack.
Cap D02	901100413	8435394727356	50
Cap D03	901100414	8435394727363	10



### • Protective covers for type DO fuse-holder bases

- Rated voltage 400 V
- According to standard IEC 60269-2

Article	Code	EAN 13	Pack.
Protective cover D02	901100415	8435394727370	10
Protective cover D03	901100416	8435394727387	10

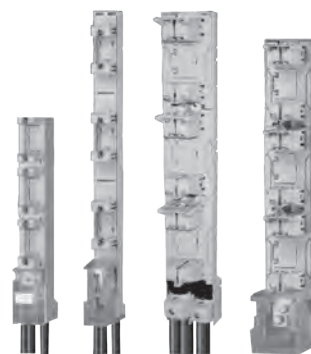


# LOW VOLTAGE FUSE-HOLDER BASES

## • Bar fuse-holder. Tripolar bases. Open vertical

- Rated voltage 690V.
- Halogen-free and self-extinguishing materials.
- Includes contacts covers and terminal covers.
- According to IEC - EN 60269-2.

Article	Code	EAN 13	Characteristics	Pack.
Base BTVA-00-100	Consult	-	NH-00-160A - 3PV	1
Base BTVA-00-185	Consult	-	NH-00-160A - 3PV	1
Base BTVA-1/2-185	Consult	-	NH-1/2-400A - 3PV	1
Base BTVA-3-185	Consult	-	NH-3-630A - 3PV	1



## • Bar Fuse Switch Disconnecter. Tripolar bases. Closed vertical

- Rated voltage 690V.
- Category of use:
  - Ve= 400 Vac. AC-22B.
  - Ve= 690 Vac. AC-21B.
- According to IEC 60947-3.

### Unipolar disconnection

Article	Code	EAN 13	Characteristics	Pack.
Base BTVC-00	Consult	-	NH-00-160 - 3PV	1
Base BTVC-1	Consult	-	NH-1-250-3PV	1
Base BTVC-2	Consult	-	NH-2-400-3PV	1
Base BTVC-3	Consult	-	NH-3-630-3PV	1



## • Fuse switch disconnecter. Sectionable horizontal bases

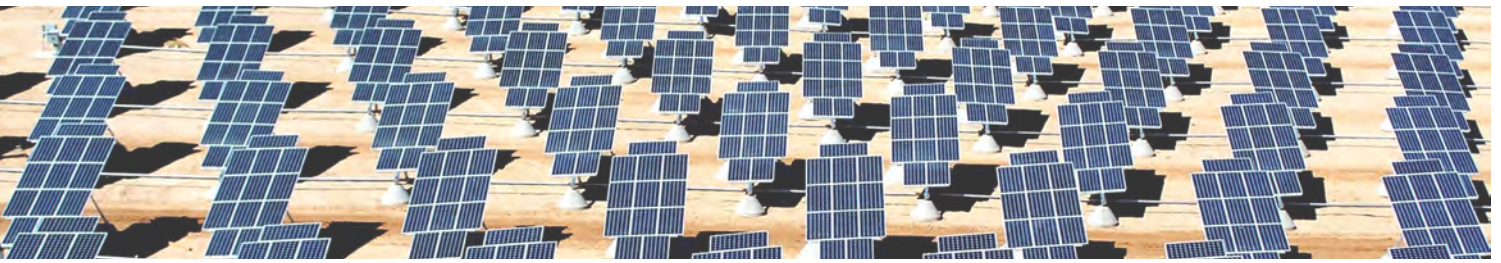
- Bases for mounting on plate.
- 3 and 4 poles versions.
- Scrollable window to control fuses for taking measurements.
- It can incorporate fuse monitoring.
- According to IEC 60947-3.

Article	Code	EAN 13	Characteristics	Pack.
Base NH SEC-00	Consult	-	NH-00-160A - 3P	1
Base NH SEC-1	Consult	-	NH-1-250A - 3P	1
Base NH SEC-2	Consult	-	NH-2-400A - 3P	1
Base NH SEC-3	Consult	-	NH-3-630A - 3P	1

Article	Code	EAN 13	Characteristics	Pack.
Base NH SEC-00/N	Consult	-	NH-00-160A - 3P+N	1
Base NH SEC-1/N	Consult	-	NH-1-250A - 3P+N	1
Base NH SEC-2/N	Consult	-	NH-2-400A - 3P+N	1
Base NH SEC-3/N	Consult	-	NH-3-630A - 3P+N	1



# SOLUTIONS FOR PHOTOVOLTAIC INSTALLATIONS



Photovoltaic solar energy represents a developing sector worldwide because of the ability to bring generation to consumer.

The objective of the new facilities is to **optimize the performance** by means of the improvement of the equipment and the optimization of the components.

**KPS Soluciones en Energía**, based on its extensive experience in the sector, presents a **range of products focused on providing a comprehensive solution** for the installation and protection of photovoltaic installations.

## • Cylindrical fuses gPV

- Rated voltage 1000 Vdc. Cutting power 20 kA.
- gPV type curve. According to IEC 60269-6

Article	Code	EAN 13	Pack.
10x38 2 A gPV 1000 Vdc	901200100	8435394727585	12
10x38 4 A gPV 1000 Vdc	901200101	8435394727592	12
10x38 6 A gPV 1000 Vdc	901200102	8435394727608	12
10x38 8 A gPV 1000 Vdc	901200103	8435394727615	12
10x38 10 A gPV 1000 Vdc	901200104	8435394727622	12
10x38 12 A gPV 1000 Vdc	901200105	8435394727639	12
10x38 16 A gPV 1000 Vdc	901200106	8435394727646	12
10x38 20 A gPV 1000 Vdc	901200107	8435394727653	12



## • Control and monitoring solutions

By the casuistry of the facilities and the isolation of them, control and remote monitoring of the facilities is a critical point thereof.

For this reason, **KPS** has **control and management systems** that can be incorporated in our Stringbox to know all the parameters of the facilities.



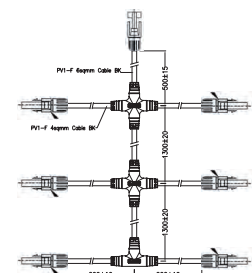
## • Solutions for the strings of PV panels

- **Customized solutions** for every application.
- Project **design**.
- Enclosure **certified**.



## • String wires solutions

**KPS Soluciones en Energía**, which has extensive experience in the sector of manufacturing of wiring, has developed a **cabbling manufacturing technology for string strings** with a production **with the highest standards of quality and production**, Being all our products tested to 100% during its productive process.



More information

[info@kps-eman.com](mailto:info@kps-eman.com)

**+34.985.081.873**



# KPS Enclosures

In KPS, we have incorporated the production of customize enclosures in all types of steels, counting also with machines of transformation of plastics for the injection of plastic sheaths of double insulation.



- Total solution for the customer
- Special manufacturing
- Possibility of incorporating accessories defined by the client
- Special paint finishes (powder) RAL-specification
- Serigraphy and engraving of surfaces as defined by the client
- Individual support and support for custom development
- Reduction of costs and time



More information  
[info@kps-euman.com](mailto:info@kps-euman.com)  
**+34.985.081.873**





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## ENCLOSURES

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**MODULAR INSULATED ENCLOSURES**  
**ENCLOSURES FOR WATER EQUIPMENT**  
**ENCLOSURES FOR GAS EQUIPMENT**  
**POLYESTER ENCLOSURES**  
**ENCLOSURES FOR PUBLIC LIGHTING**  
**ENCLOSURES COMBINATIONS**  
**INDUSTRIAL ENCLOSURES**

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 **KPS**

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# Product adaptation to customer needs

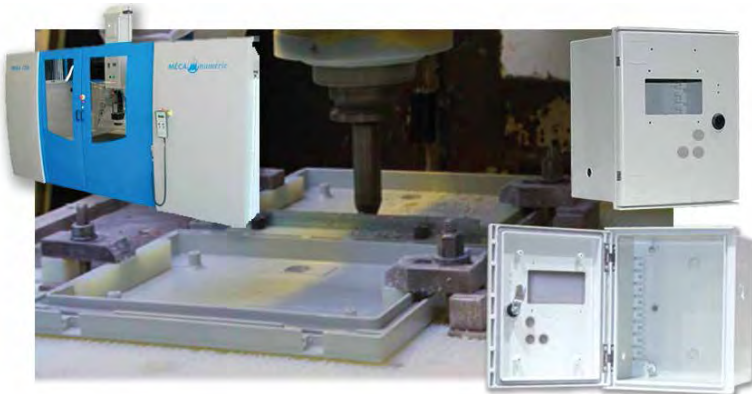
- We know that the conditions for the products are not always the same, and that the solutions have to be adapted to the needs. Therefore, from KPS we offer you a product adaptation service that allows us a high degree of flexibility when making changes, modifications and adjustments so that our solutions conform to the requirements of our clients.
- KPS offers its customers a wide range of product machining, Painted, aesthetic or security adhesives, in order to offer a customized solution for each client and project.
- Our technical office puts its knowledge and experience to shape the product that is needed in each case, giving equal importance to aesthetics as to their functionality.
- Our versatility comes from being a manufacturer of all our envelopes giving us the ability to modify and apply solutions that others can't reach.



Vinyls



Custom painted



Machining center

Cabinet for photovoltaic systems



# MODULAR INSULATED ENCLOSURES IP65

## • Features

- Double-insulated modular enclosures, which together with its range of accessories allow for various applications, especially in industrial activities.
- They consist of a fiberglass reinforced polyester vat and a transparent polycarbonate cover (stabilized to UV) or opaque.
- Color grey RAL 7035 unalterable outdoors.
- Self-extinguishing material.
- High resistance to impact, temperature and corrosion.
- Degree of protection: IP-65 (UNE 20324)
- Gasket between the vat and the lid
- Operating temperature between -30°C and 120°C
- Easily machinable: can be joined by watertight flanges, maintaining the degree of protection, forming modular assemblies.
- Applications: distribution boards, fuse boxes, switchboards, socket outlets, temporary electrical switchboards, etc.



## • Modular insulated enclosures IP-65

Article		Amps			Vats			Covers		
T. Transparent	T. Opaque	A	B	C	A	B	C	A	B	C
KPS-C2718	KPS-2718TO	270	180	170	270	180	125	270	180	45
KPS-C2727	KPS-C2727TO	270	270	170	270	270	125	270	270	45
KPS-C3627	KPS-C3627TO	360	270	170	360	270	125	360	270	45
KPS-C5274	KPS-C5427PO	540	270	170	540	270	125	540	270	45
KPS-C5427A	KPS-C5427ATO	540	270	200	540	270	125	540	270	75
KPS-C5436	KPS-C5436TO	540	360	170	540	360	125	540	360	45
KPS-C5436A	KPS-C5438ATO	540	360	200	540	360	125	540	360	75
KPS-C5454	KPS-C5454TO	540	540	170	540	540	125	540	540	45
KPS-C5454A	KPS-C544TA50	540	540	200	540	540	125	540	540	75
KPS-C7236A	KPS-C7236A TO	720	360	200	720	360	125	720	360	75
KPS-C7254A	KPS-C7254A TO	720	540	200	720	540	125	720	540	75



## • Insulating plates

Article	Dimensions		
	A	B	C
AP-KPS-C2718	230	140	3
AP-KPS-C2727	230	230	3
AP-KPS-C3627	320	230	3
AP-KPS-C5427	510	230	3
AP-KPS-C5436	510	320	3
AP-KPS-C5454	510	510	3
AP-KPS-C7236	720	360	3
AP-KPS-C7254	720	540	3



# MODULAR INSULATED ENCLOSURES IP65

## • Coupling cable ties and side covers

- Made of fiberglass reinforced polyester. Color grey RAL 7035.
- With sealing gasket

Article	Features
KPS-BAP-J	Small coupling cable tie with sealing gasket
KPS-BAM-J	Medium coupling cable tie with sealing gasket
KPS-BAG-J	Big coupling cable tie with sealing gasket
KPS-TLP-J	Small side cover with sealing gasket
KPS-TLG-J	Big side cover with sealing gasket



## • Wall-mounted pieces

- Standard finish: galvanized steel

Article	Features
KPS-Módulos	Set of 4 pins. Wall-mounted



# MODULAR INSULATED ENCLOSURES IP65

## • Applications

- This range of modular enclosures, together with their accessories, allows to form sets of different sizes, maintaining the same properties of double insulation and degree of protection. The enclosures can be used individually or together for various applications, such as:

- Distribution boards
- Fuse boxes
- Switchboards
- Socket outlets
- Temporary electrical switchboards



# ENCLOSURES FOR WATER EQUIPMENT

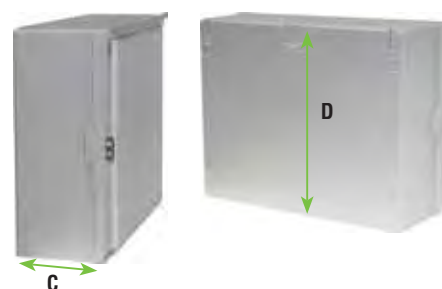
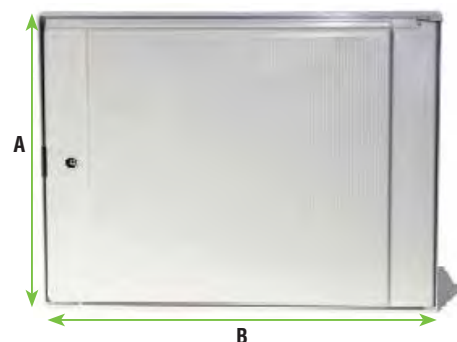
## • Features

- Designed to house in its interior equipment of measurement and regulation of water.
- Made from fiberglass reinforced polyester
- They offer excellent resistance to impact, corrosion and high temperatures.
- Degree of protection: IP-43 (UNE-20324).
- Natural convection self-ventilation.
- It consists of a vat and a removable door with an opening of more than 180° with anagram "Water".
- They can be supplied with windows for reading the measuring devices (optional).
- Normalized standard triangular lock (optionally it can be supplied with other types of lock).
- Optionally they can be supplied with thermal insulation.



## • Enclosures for water equipment

Article	Features	Dimensions			
		A	B	C	D
KPS-1 F145-AGUA	Without peephole	312	428	145	265
KPS-1 F1-45AGUA/ML	1 centered peephole	312	428	145	265
KPS-1 AGUA	Without peephole	312	428	190	265
KPS-1 AGUA/ML	1 centered peephole	312	428	190	265
KPS-2 AGUA	Without peephole	530	530	230	525
KPS-2 AGUA/ML	1 centered peephole	530	530	230	525
KPS-3 AGUA	Without peephole	530	700	230	525
KPS-3 AGUA/ML	2 peephole	530	700	230	525



## • Registration doors

Article	Dimensions	
	A	B
PR-KPS-1 AGUA	300	400



# ENCLOSURES FOR WATER EQUIPMENT

## • Water counter support

Article	Features
SCA	Metal support for mounting the counter



## • Thermal insulation

- The enclosures can be supplied, on request, with thermal insulation.

Article	Features	Enclosure
AT-KPS-1	Insulation throughout the enclosure	KPS-1
AT-KPS-2	Insulation throughout the enclosure	KPS-2
AT-KPS-3	Insulation throughout the enclosure	KPS-3



## • Closures

Article	Closure	Features
CT-KPS-1	Triangular	Standard closure (plastic) KPS-1/2/3
CT-KPS-2	Triangular	Screw threaded brass KPS-1/2/3
CT-KPS-4	Triangular	Key for triangular closure
CT-KPS-5	Rectangular	Square closure KPS-1/2/3
CT-KPS-6	Rectangular	Key for square closure



## • Applications

- Enclosures designed to house inside, equipment for measuring and regulating water pipes,
- Made of pressed polyester reinforced with fiberglass.
- Light grey color (RAL 7032)
- They offer high resistance to impact, corrosion and ultraviolet rays.
- Optionally: Door with inner layer of thermal insulation to protect the equipment of measurement from low temperatures
- They allow their installation recessed or attached to the wall.



# ENCLOSURES FOR GAS EQUIPMENT

## • Features

- Designed to house in its interior equipment of measurement and regulation of gas.
- Made from fiberglass reinforced polyester.
- They offer excellent resistance to impact, corrosion and high temperatures.
- Degree of protection: IP-43 (UNE-20324)
- Natural convection self-ventilation.
- It consists of a vat and a removable door with an opening of more than 180° with anagram "Gas".
- Normalized standard triangular lock (optionally it can be supplied with other types of lock)



## • Enclosures for gas equipment

Article	Features	Dimensions			
		A	B	C	D
KPS-00 GAS	Without peephole	483	350	195	-
KPS-00 GAS	With peephole	483	350	210	-
KPS-0 GAS	Without peephole	520	210	210	-
KPS-2 GAS	With peephole	530	530	230	525
KPS-2 GAS	Without peephole	530	530	230	525
KPS-3 GAS	With peephole	530	700	230	525
KPS-3 GAS	Without peephole	530	700	230	525
KPS-75 GAS	Without peephole	750	500	300	-
KPS-77 GAS	Without peephole	750	750	300	-



## • Closures

Article	Closure	Features
CT	Triangular	Standard closure (plastic) KPS-1/2/3
CTL	Triangular	Screw threaded brass KPS-1/2/3
LLT	Triangular	Key for triangular closure
CC	Rectangular	Square closure KPS-1/2/3
LLC	Rectangular	Key for square closure





# POLYESTER ENCLOSURES MINI-KPS (IP-65)

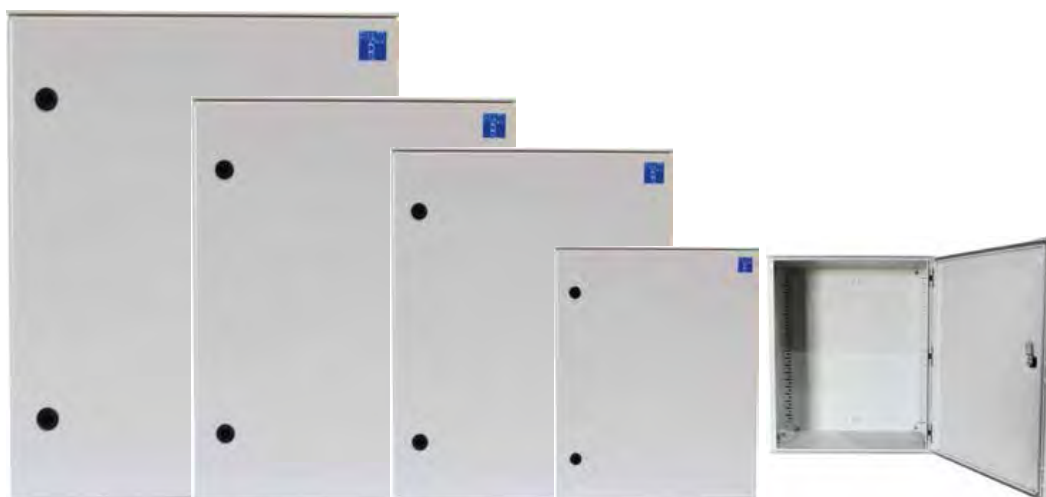
## • Features

- Cabinets made of polyester, reinforced with fiberglass, hot pressing.
- Self-extinguishing material (UNE-53315).
- Degree of protection IP-65 (/ EN-60529).
- High mechanical resistance against impacts
- IK-10 (EN-50102).
- Non-hygroscopic material: no water absorption.
- Light grey color (RAL-7035), unalterable in the open.
- Resistant to chemical and atmospheric agents.
- Specially recommended for installations in corrosive environments.



## • Polyester enclosures MINI-KPS (IP-65)

Article		Dimensions						
P. Transparent	P. Opaque	A	B	C	D	E	F	G
MINI-KPS-325	MINI-KPS-325-PT	300	250	160	162	206	234	235
MINI-KPS-43I	MINI-KPS-43-PT	400	300	200	210	254	383	323
MINI-KPS-54	MINI-KPS-54-PT	500	400	200	310	354	438	433
MINI-KPS-65	MINI-KPS-65-PT	600	500	250	406	452	534	530
MINI-KPS-86	MINI-KPS-86-PT	800	600	300	505	551	734	728



## • Polyester plates

Article	Features
PMP-325	Polyester plates PMP-325
PMP-43	Polyester plates PMP-43
PMP-54	Polyester plates PMP-54
PMP-65	Polyester plates PMP-65
PMP-86	Polyester plates PMP-86

## • Metal plates

Article	Features
PMM-325	Metal plate PMM-325
PMM-43	Metal plate PMM-43
PMM-54	Metal plate PMM-54
PMM-65	Metal plate PMM-65
PMM-86	Metal plate PMM-86

# POLYESTER ENCLOSURES MINI-KPS (IP-65)

## • Construction details

- One-piece body (monoblock), incorporating a molded protective visor.
- Door with interior hinges, allowing a 180° opening.
- Standard closure: double bar (DIN 43668); optionally can be supplied with other types of closures (see accessories).
- Fixing lugs for fixings on the door (With self-tapping screws 3.9x9.5).
- The interior of the door incorporates a signaling grid to facilitate the centering of components.
- Its design allows fast fixing of profiles in the background.
- Wall mounting pins.
- Possibility of incorporating insulating or metallic mounting plates.
- Wide range of mounting accessories.



# POLYESTER ENCLOSURES MINI-KPS (IP-65)

## • Closures

Article	Features
DB	Standard closure (double DIN bar 3.0 mm)
CT	Triangular closure (11 mm)
CLL	Manual lock with key



## • Wall mounting pins

Article	Features
PFM	Wall mounting kit
CF	KPS-Conj. Wall mounting pins



## • Modular sliding plate assembly

Article	Features
PDP-200	For MINI KPS enclosures with 200mm depth (MINI KPS-43 and MINI KPS-54)
PDP-250	For MINI KPS enclosures with 250mm depth (MINI KPS-65)
PDP-300	For MINI KPS enclosures with 300mm depth (MINI KPS-86)



## • Distribution chassis

- Distribution chassis for the installation of modular fuses.
- Self-extinguishing insulation cover (color RAL 7035).
- Fast mounting chassis inside the enclosure.

Article	Features	N° Rows	Mod./Rows	Total Modules
CH-325	Chassis MINI KPS-325	2	8	16
CH-43	Chassis MINI KPS-43	2	12	24
CH-54	Chassis MINI KPS-54	3	18	54
CH-65	Chassis MINI KPS-65	3	23	59
CH-86	Chassis MINI KPS-86	4	29	116

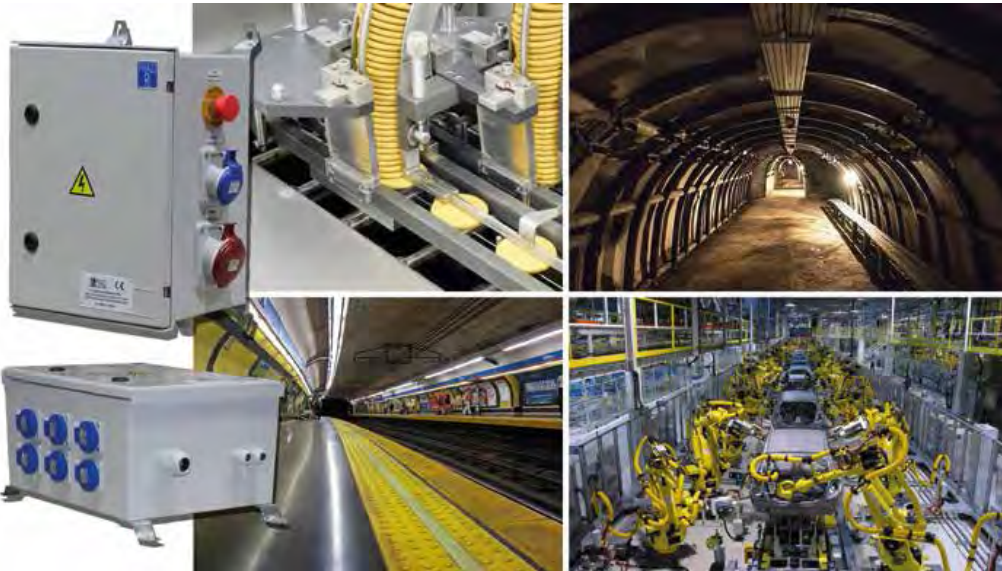


# POLYESTER ENCLOSURES MINI-KPS (IP-65)

## • Applications

This type of enclosures offers numerous applications in the field of industry and infrastructures:

- Food industry.
- Mining and petrochemical industry.
- Electrical switchboards for temporary supplies (electrical tables, markets, fairs, etc.)
- Electrical switchboards for photovoltaic systems.
- Wind power plants.
- Road signaling equipment.
- Video Surveillance Equipment.
- Switchboards for camping.



# ENCLOSURES FOR PUBLIC LIGHTING

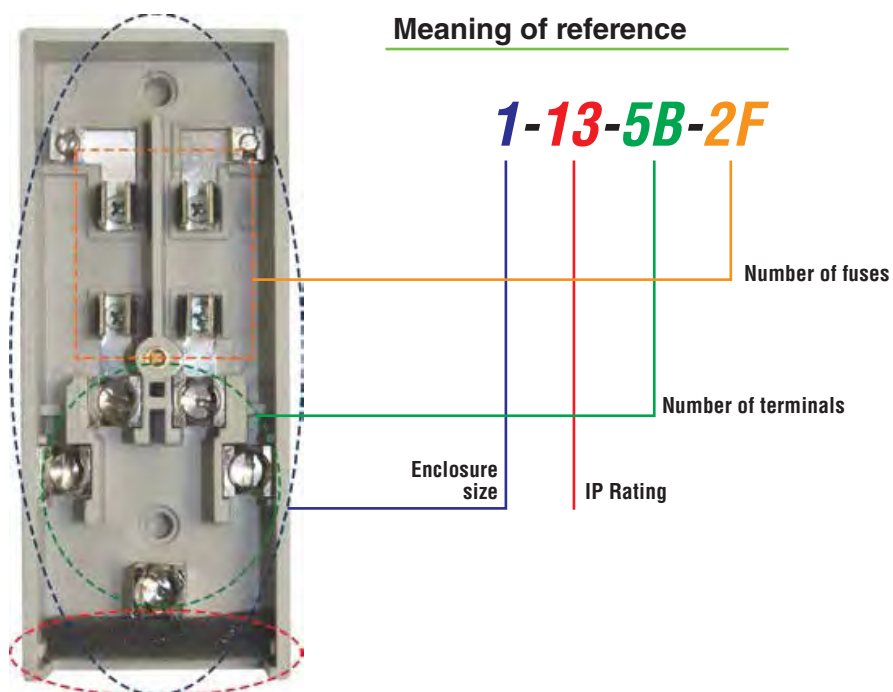
## • Technical characteristics

- Connection, shunt and protection enclosures, made of fiberglass reinforced polyester.
- Designed and adapted to be used in columns or lighting fixtures and facades.
- Prepared to accommodate cylindrical fuses, size 0 of 10x38.
- Insulation material of thermal class A, according to UNE 21305.
- Input terminals made of brass.
- Protection degree:
  - IP 44. For facade installation.
  - IP 13. For column installation.
- Closure for brass screws.
- The number of terminals, dimensions of the enclosure, clamping capacity and number of fuses varies according to the attached table (see next page).



## • Construction Details

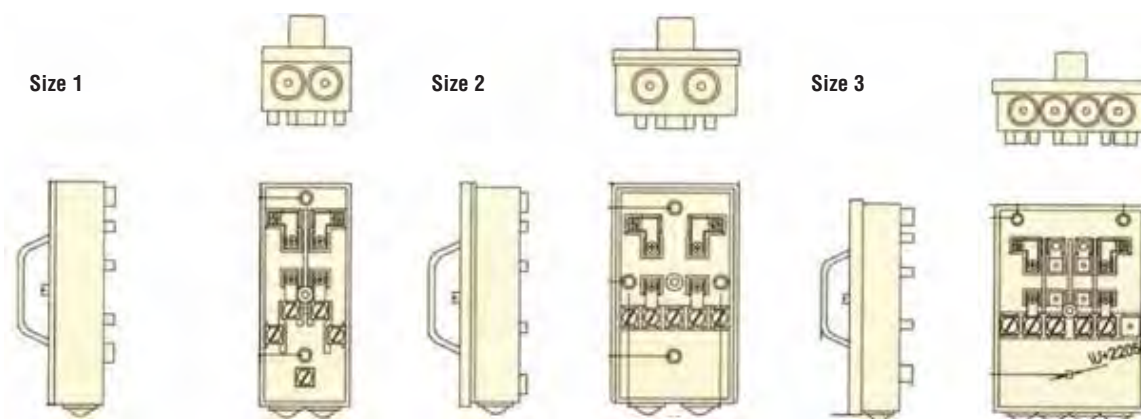
- Designed to provide protection against direct and indirect contacts with active parts, offering, in addition to the ease and speed of assembly, the safety of handling by qualified personnel.
- When the fuse cartridges are housed in the cover of the junction box itself, when removing the cover by the safety pin, the protected circuit is interrupted with visible cut without affecting the power circuit. This particularity favors and gives complete security to the maintenance work, since it guarantees that, with the cap removed, it is possible to work without voltage in the protected circuit.



# ENCLOSURES FOR PUBLIC LIGHTING

## • Models and references

- Connection, shunt and protection enclosures, made of fiberglass reinforced polyester.
- Designed and adapted to be used in columns or lighting fixtures and facades.
- Prepared to accommodate cylindrical fuses, size 0 of 10x38.
- Insulation material of thermal class A, according to UNE 21305.
- Input terminals made of brass.
- Protection degree:
  - IP 44. For facade installation.
  - IP 13. For column installation.
- Closure for brass screws.
- The number of terminals, dimensions of the enclosure, clamping capacity and number of fuses varies according to the attached table.

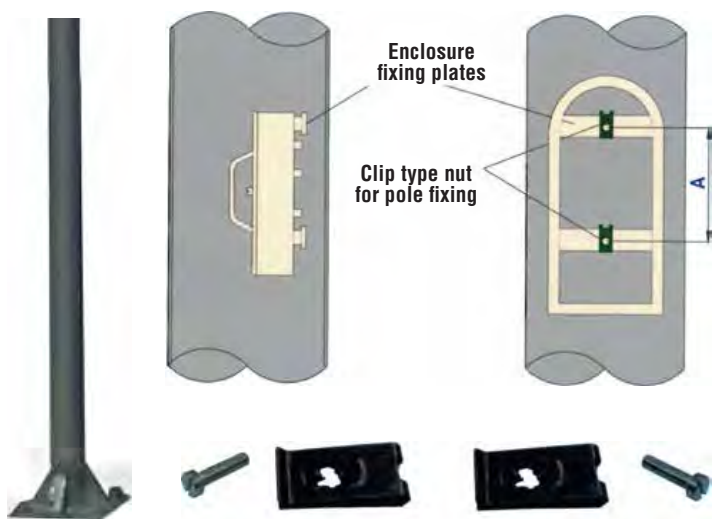


Article	Features	Input terminals		Output terminals	Dimensions				
		Nº	Size	Nº Fuses	Height	Width	Depth	Unit	IP
1-13-2B-1F	KPS-CAJA ALUMBRADO	2	2x16	1	150	60	65	24	13
1-13-4B-2F	KPS-CAJA ALUMBRADO	4	4x16	2	150	60	65	24	13
1-13-5B-2F	KPS-CAJA ALUMBRADO	5	5x16	2	150	60	65	24	13
1-44-4B-2F	KPS-CAJAALUMBRADO	4	4x16	2	150	60	65	24	44
1-44-5B-2F	KPS-CAJA ALUMBRADO	5	5x16	2	150	60	65	24	44
2-13-4B-2F	KPS-CAJA ALUMBRADO	4	4x25	2	148	83	65	18	13
2-13-5B-2F	KPS-CAJA ALUMBRADO	5	5x25	2	148	83	65	18	13
2-44-4B-2F	KPS-CAJA ALUMBRADO	4	4x25	2	148	83	65	18	44
2-44-5B-2F	KPS-CAJA ALUMBRADO	5	5x25	2	148	83	65	18	44
3-13-4B-2F	KPS-CAJA ALUMBRADO	4	4x35	2	165	83	70	12	13
3-13-4B-4F	KPS-CAJA ALUMBRADO	4	4x35	4	165	120	70	12	13
3-13-5B-2F	KPS-CAJA ALUMBRADO	5	5x35	2	165	120	70	12	13
3-13-5B-4F	KPS-CAJA ALUMBRADO	5	5x35	4	165	120	70	12	13
3-13-6B-2F	KPS-CAJA ALUMBRADO	6	6x35	2	165	120	70	12	13
3-13-6B-4F	KPS-CAJA ALUMBRADO	6	6x35	4	165	120	70	12	13
3-44-4B-2F	KPS-CAJA ALUMBRADO	4	4x35	2	165	120	70	12	44
3-44-4B-4F	KPS-CAJA ALUMBRADO	4	4x35	4	165	120	70	12	44
3-44-5B-2F	KPS-CAJA ALUMBRADO	5	5x35	2	165	120	70	12	44
3-44-5B-4F	KPS-CAJA ALUMBRADO	5	5x35	4	165	120	70	12	44
3-44-6B-2F	KPS-CAJA ALUMBRADO	6	6x35	2	165	120	70	12	44
3-44-6B-4F	KPS-CAJA ALUMBRADO	6	6x35	4	165	120	70	12	44

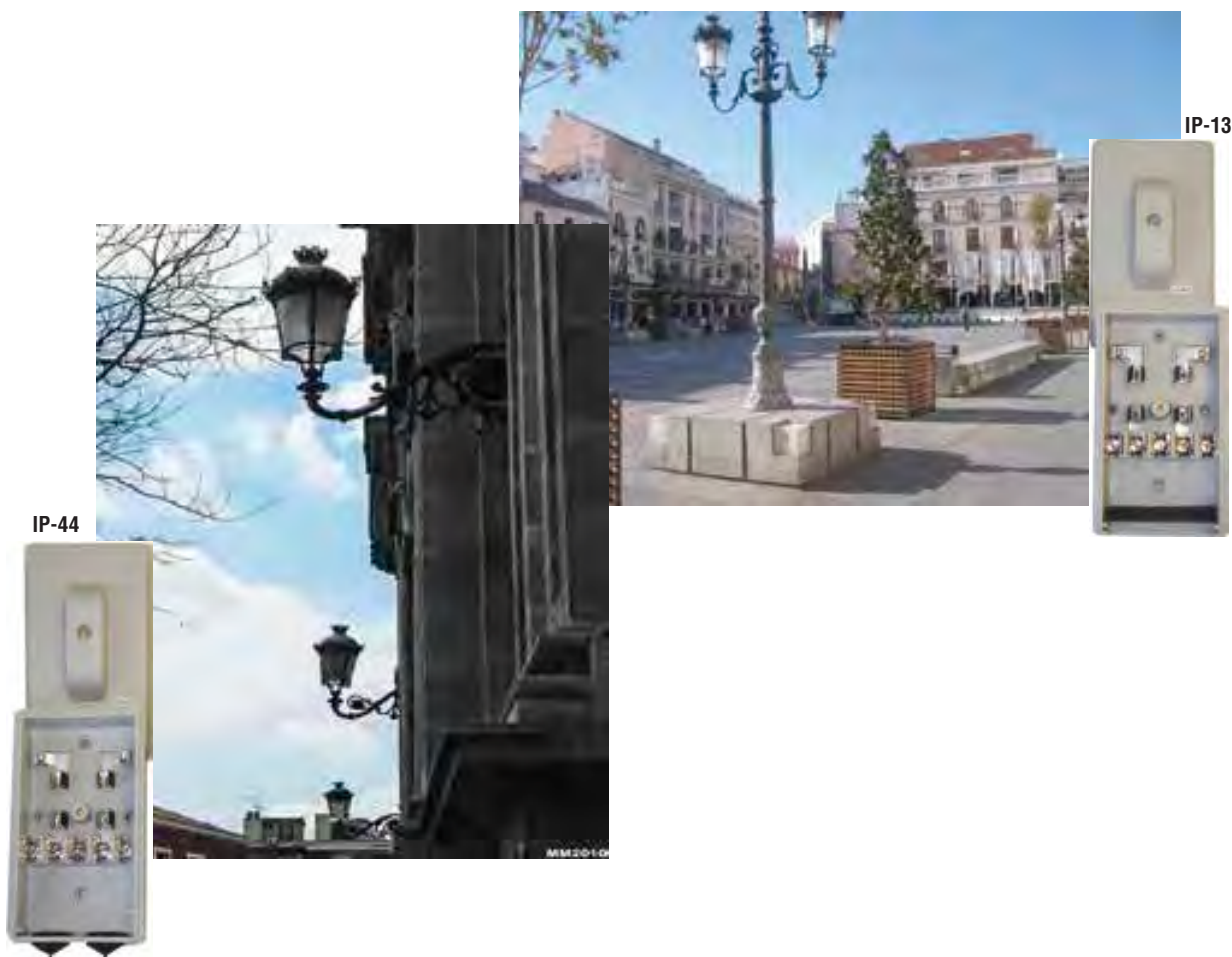
# ENCLOSURES FOR PUBLIC LIGHTING

## • Fixation

Article	Description
KFCA	Fixing kit for public lighting enclosure



## • Applications



# ENCLOSURES COMBINATIONS

## • Empty combined enclosures KPS

- RAL 7035 Grey
- ABS - Polycarbonate
- Halogen free
- Operating temperature: -25 to +60°C
- IP54

### Angled enclosures

Article	Code	Dimensions	Protection Modules	Pack
KPS-CVA 1	Consult	130x240x105	6M	14
KPS-CVA 2	Consult	230x300x115	11M	6
KPS-CVA 3	Consult	260x360x130	12M	1



### Straight boxes

Article	Code	Dimensions	Protection Modules	Pack
KPS-CVR 1	Consult	130x240x105	6M	14
KPS-CVR 2	Consult	180x360x115	6M	7
KPS-CVR 3	Consult	230x300x115	11M	6
KPS-CVR 4	Consult	130x350x105	6M	10
KPS-CVR 5	Consult	130x460x105	6M	8
KPS-CVR 6	Consult	330x506x150	13M	4
KPS-CVR 7	Consult	330x685x150	32M	1





# INDUSTRIAL ENCLOSURES

## • Steel distribution boxes

Characteristics:

- Made of steel.
- Thicknesses of 0.6 to 1.5 mm depending on model.
- Degree of protection IP54, IK08.
- Epoxy surface treatment.
- RAL 7035.



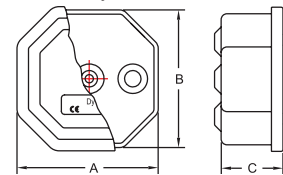
KPSDybox-800-1000

KPSDybox-1250-1500

Article	Code	EAN 13	Dimensions			Pack.
			A	B	C	
Distribution box KPSDybox-800	150400001	8435394730042	80	80	35	20
Distribution box KPSDybox-1000	150400002	8435394730059	100	100	40	20



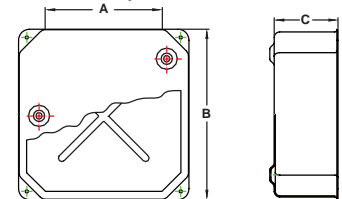
KPSDybox-800-1000



Article	Code	EAN 13	Dimensions			Pack.
			A	B	C	
Distribution box KPSDybox-1250	150400003	8435394730066	125	125	50	20
Distribution box KPSDybox-1500	150400004	8435394730073	150	150	55	20



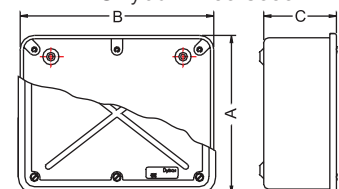
KPSDybox-1250-1500



Article	Code	EAN 13	Dimensions			Pack.
			A	B	C	
Distribution box KPSDybox-2160	150400005	8435394730080	160	200	65	10
Distribution box KPSDybox-2500	150400006	8435394730097	200	250	85	5
Distribution box KPSDybox-3000	150400007	8435394730103	250	300	100	2



KPSDybox-2160-3000



# INDUSTRIAL ENCLOSURES

## • Steel distribution boxes

Characteristics:

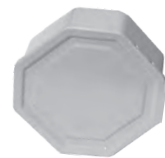
- Made of steel.
- Thicknesses of 0.6 to 1.5 mm depending on model.
- Degree of protection IP54, IK08.
- Epoxy surface treatment.
- RAL 7035.



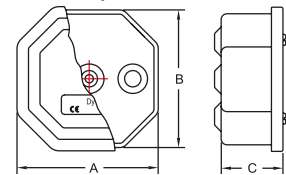
KPSDybox-800-1000

KPSDybox-1250-1500

Article	Code	EAN 13	Dimensions			Pack.
			A	B	C	
Distribution box KPSDybox-800	150400001	8435394730042	80	80	35	20
Distribution box KPSDybox-1000	150400002	8435394730059	100	100	40	20



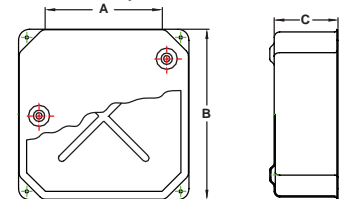
KPSDybox-800-1000



Article	Code	EAN 13	Dimensions			Pack.
			A	B	C	
Distribution box KPSDybox-1250	150400003	8435394730066	125	125	50	20
Distribution box KPSDybox-1500	150400004	8435394730073	150	150	55	20



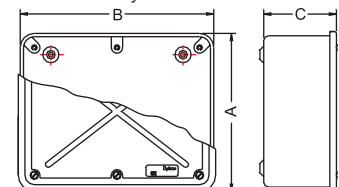
KPSDybox-1250-1500



Article	Code	EAN 13	Dimensions			Pack.
			A	B	C	
Distribution box KPSDybox-2160	150400005	8435394730080	160	200	65	10
Distribution box KPSDybox-2500	150400006	8435394730097	200	250	85	5
Distribution box KPSDybox-3000	150400007	8435394730103	250	300	100	2



KPSDybox-2160-3000



## SIGNALLING

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INDUSTRIAL SIGNALLING  
INDUSTRIAL PROCESSES SIGNALLING

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# INDUSTRIAL SIGNALLING

## • Minibuzzers

### Characteristics:

- Single alarm state
- Wide range of voltages
- Compact design
- Different mounting options

### Applications:

- Control panels
- Reverse gear and vehicle flashing lights
- Step controls
- Refrigerating chambers



AE20M



AE30M



KPS-MINI-CP2



KPS-MINI-CP22



Article	Code	EAN 13	Voltage	Sound	Frequency	IP	Installation
AE20M-48	201100150	8435394736174	6-48 Vdc	82 dB	2900 Hz	55	Panel
AE20M-230	201100148	-	130-240 Vac	90 dB	2900 Hz	55	Panel
AE30M-FT-01	201100151	8435394712963	6-14 Vdc	90 dB	450 Hz	34	Panel/Surface
AE30M-FT-02	201100152	8435394712970	10-28 Vdc	90 dB	450 Hz	34	Panel/Surface
KPS-MINI CP2-12	203100028	8435394732978	12 Vdc	108 dB	2800 Hz	54	Panel/Surface
KPS-MINI CP22-12	203100029	8435394745206	12 Vdc	118 dB	2800 Hz	54	Panel/Surface
KPS-MINI BUZZER	203100030	-	3-28 Vdc	85dB	3000 Hz	21	Surface

## • Buzzers

### Characteristics:

- Wide range of voltages
- Single alarm state
- Robust construction (steel)
- Signals of low frequency and high penetration

### Applications:

- Factories
- Schools
- Cranes
- Ports
- Train Stations
- Airports
- Workshops



AE-95

Article	Code	EAN 13	Voltage	Sound	Frequency	IP	Installation
AE95-05	201100153	8435394712987	24-48 Vdc/Vac	111 dB	420 Hz	53	Panel
AE95-06	201100154	8435394712994	115-230 Vdc/Vac	111 dB	420 Hz	53	Panel
Carcasa AE95-BB	201100110	8435394712550	N.A	N.A	N.A	65	Surface

# INDUSTRIAL SIGNALLING

## • Bell rings

### Characteristics:

- Wide range of voltages
- Different sizes
- Available in grey and red
- Robust Construction
- Surface installation

### Applications:

- Fire Alarms
- Beauty Therapy
- Parkings
- Warehouses
- Telephone ringing



Article	Code	EAN 13	Voltage	Color
A6B-R-110	203100001	8435394732800	110 Vac	Red
A6B-R-230	203100002	8435394732817	230 Vac	Red
A8B-R-110	203100003	8435394732824	110 Vac	Red
A8B-R-230	203100004	8435394732831	230 Vac	Red
A4B-G-110	203200060	8435394744216	110 Vac	Grey
A4B-G-230	203200061	8435394744223	230 Vac	Grey
A6B-G-110	203200062	8435394744230	110 Vac	Grey
A6B-G-230	203200063	8435394744247	230 Vac	Grey
A8B-G-110	203200064	8435394744254	110 Vac	Grey
A8B-G-230	203200065	8435394744261	230 Vac	Grey
A4B-R-110	203200074	8435394744193	110 Vac	Red
A4B-R-230	203200075	8435394744209	230 Vac	Red

## • Motorized sirens

### Characteristics:

- Electronics devices
- With high output signal
- Omnidirectional and continuous sound
- Surface or recessed fixation
- Wide range of voltages

### Applications:

- Fire Alarms
- Factories
- Parkings
- Large areas



Article	Code	EAN 13	Voltage	Sound	Frequency	IP	Installation
KPS-MCL 12	203200068	8435394744292	12 Vac	107 dB	1150 Hz	44	Surface
KPS-MCL 24	203200069	8435394744308	24 Vac	112 dB	1400 Hz	44	Surface
KPS-MCL 110	203200070	8435394744315	110 Vac	109 dB	1100 Hz	44	Surface
KPS-MCL 230	203200071	8435394744322	230 Vac	112 dB	1400 Hz	44	Surface
KPS-MW 12	203200072	8435394744339	12 Vac	94 dB	1150 Hz	44	Panel
KPS-MW 24	203200073	8435394744346	24 Vac	98 dB	1300 Hz	44	Panel

## • Mini electronic sirens ML

### Characteristics:

- Small electronic siren
- 8 selectable tones
- Easy installation

### Applications:

- Fire Alarms
- Factories
- Parkings
- Large areas



Article	Code	EAN 13	Voltage	Sound	Installation
KPS-ML 12	203200066	8435394744278	12 Vac	100 dB	Surface
KPS-ML 230	203200067	8435394744285	230 Vac	100 dB	Surface

# INDUSTRIAL SIGNALLING

KPS

SIGNALLING

KPS

## • Motorized sirens Mini Mono

### Characteristics:

- Reduced size
- Wide range of voltages
- High sound quality
- Continuous sound
- Easy installation

### Applications:

- Fire alarm
- Factories
- Parkings
- Large areas
- General use



MINI MONO P

Article	Code	EAN 13	Voltage	Sound	Frequency	IP	Installation
Mini Mono P Vdc	202100563	8435394716206	24 Vdc	103 dB	1000 Hz	44	Surface
Mini Mono P Vac	202100564	8435394716213	110-230 Vac	103 dB	1000 Hz	44	Surface

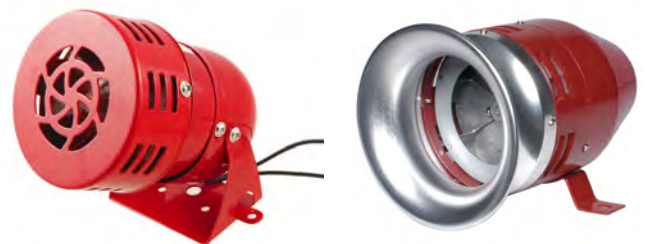
## • Motorized sirens MS

### Characteristics:

- Wide range of voltages
- High output signal
- Continuous or intermittent sound
- Omni-directional sound
- Robust design

### Applications:

- Fire alarm
- Factories
- Parkings
- Large areas
- General purpose



KPS-MINI-MS

KPS-MS

Article	Code	EAN 13	Voltage	Sound	IP	Installation
KPS-Mini-MS 12	203100020	8435394732893	12 Vdc	105 dB	54	Surface
KPS-Mini-MS 24	203100021	8435394732909	24 Vdc	105 dB	54	Surface
KPS-Mini-MS 120	203100022	8435394732916	120 Vac	105 dB	54	Surface
KPS-Mini-MS 230	203100023	8435394732923	230 Vac	110 dB	54	Surface
KPS-MS 12	203100024	8435394732930	12 Vdc	135 dB	54	Surface
KPS-MS 24	203100025	8435394732947	24 Vdc	135 dB	54	Surface
KPS-MS 120	203100026	8435394732954	120 Vac	135 dB	54	Surface
KPS-MS 230	203100027	8435394732961	230 Vac	135 dB	54	Surface

# INDUSTRIAL SIGNALLING

## • Motorized sirens Mono/Duplo

### Characteristics:

- Powerful output signal with high quality
- Omni-directional sound (360 °)
- Continuous sound
- Robust design



### Applications:

- Fire alarm
- Factories
- Ports



MONO 72



DUPLO

Article	Code	EAN 13	Voltage	Sound	Frecuencia	IP	Installation
Mono 72	202100567	8435394716244	230 Vac/Vdc	120 dB	1800 Hz	65	Torre/Sup
Duplo 230	202100548	8435394716053	230 Vac/Vdc	127 dB	1600 Hz	65	Torre/Sup

## • Motorized sirens SUPER M/SO

### Characteristics:

- High output signal
- Omni-directional sound
- Continuous or intermittent sound
- Robust design



### Applications:

- Fire alarm
- General use
- Factories
- Large areas



SUPER M



SO4

Article	Code	EAN 13	Voltage	Sound	Frequency	IP	Installation
Super M 110	202100609	8435394716664	110 Vac/Vdc	127 dB	1680 Hz	55	Wall
Super M 230	202100610	8435394716671	230 Vac/Vdc	127 dB	1680 Hz	55	Wall
SO4 230	202100592	8435394716497	230 Vac/Vdc	125 dB	900 Hz	65	Tower/Suface

# INDUSTRIAL SIGNALLING

## • LED/LEDI-85

### Characteristics:

- Wide range of currents
- Compact design
- Anti-vandalism security mechanism
- Long-life LED light
- Extra shine
- No maintenance
- continuous or flashing light
- Depending on the reference
- Dimensions: Ø85x81 mm
- Fixing on surface or wall

### Applications:

- Fire alarm
- Process control
- Mechanical and emergency doors
- Lifts
- Beacon



LED/LEDI-85



Article	Code	EAN 13	Voltage	Consumption	Light	Type	IP	Color
LED85-03-02	202200057	8435394735382	110 Vac	32 mA	Led	Fixed	65	Red
LED85-03-01	202200058	8435394735399	110 Vac	32 mA	Led	Fixed	65	Amber
LED85-03-05	202200059	8435394735405	110 Vac	32 mA	Led	Fixed	65	White
LED85-03-03	202200060	8435394735412	110 Vac	32 mA	Led	Fixed	65	Blue
LED85-03-04	202200061	8435394735429	110 Vac	32 mA	Led	Fixed	65	Green
LED85-03-02	202200067	8435394735481	230 Vac	32 mA	Led	Fixed	65	Red
LED85-03-01	202200068	8435394735498	230 Vac	32 mA	Led	Fixed	65	Amber
LED85-03-05	202200069	8435394735504	230 Vac	32 mA	Led	Fixed	65	White
LED85-03-03	202200070	8435402535515	230 Vac	32 mA	Led	Fixed	65	Blue
LED85-03-04	202200071	8435394735528	230 Vac	32 mA	Led	Fixed	65	Green
LEDI85-03-02	202200062	8435394735436	110 Vac	32 mA	Led	60 FPM	65	Red
LEDI85-03-01	202200063	8435394735443	110 Vac	32 mA	Led	60 FPM	65	Amber
LEDI85-03-05	202200064	8435394735450	110 Vac	32 mA	Led	60 FPM	65	White
LEDI85-03-03	202200065	8435394735467	110 Vac	32 mA	Led	60 FPM	65	Blue
LEDI85-03-04	202200066	8435394735474	110 Vac	32 mA	Led	60 FPM	65	Green
LEDI85-04-02	202200072	8435394735535	230 Vac	32 mA	Led	60 FPM	65	Red
LEDI85-04-01	202200073	8435394735542	230 Vac	32 mA	Led	60 FPM	65	Amber
LEDI85-04-05	202200074	8435394735559	230 Vac	32 mA	Led	60 FPM	65	White
LEDI85-04-03	202200075	8435394735566	230 Vac	32 mA	Led	60 FPM	65	Blue
LEDI85-04-04	202200076	8435394735573	230 Vac	32 mA	Led	60 FPM	65	Green
LED85-02-02 DUAL	202200052	8435394735337	11-35 Vdc	50 mA	Led	Fixed/flash	65	Red
LED85-02-01 DUAL	202200053	8435394735344	11-35 Vdc	50 mA	Led	Fixed/flash	65	Amber
LED85-02-05 DUAL	202200054	8435394735351	11-35 Vdc	50 mA	Led	Fixed/flash	65	White
LED85-02-03 DUAL	202200055	8435394735368	11-35 Vdc	50 mA	Led	Fixed/flash	65	Blue
LED85-02-04 DUAL	202200056	8435394735375	11-35 Vdc	50 mA	Led	Fixed/flash	65	Green



# INDUSTRIAL SIGNALLING

## • LEDD/LEDA-100

### Characteristics:

- Long-life LED light (8 SMT LEDs)
- Surface or wall mounting
- 360 ° on the vertical axis
- No maintenance
- Acoustic or intermittent signaling (LEDD)
- Intermittent signaling with or without buzzer (LEDA)
- Dimensions: Ø90x119 mm

### Applications:

- Fire alarm
- Process control
- Construction
- Cranes
- Machinery
- Forklifts
- Beacon



LEDD-LEDA100



Article	Code	EAN 13	Voltage	Light	Type	Sound	IP	Color
LEDD100-01-01	201200592	-	8-20 Vac/Vdc	Led	160 FPM	N.A	65	Amber
LEDD100-01-02	201200593	-	8-20 Vac/Vdc	Led	160 FPM	N.A	65	Red
LEDD100-01-04	201200594	-	8-20 Vac/Vdc	Led	160 FPM	N.A	65	Green
LEDD100-02-01	201200595	-	20-30 Vac/Vdc	Led	160 FPM	N.A	65	Amber
LEDD100-02-02	201200596	-	20-30 Vac/Vdc	Led	160 FPM	N.A	65	Red
LEDD100-02-04	201200597	-	20-30 Vac/Vdc	Led	160 FPM	N.A	65	Green
LEDD100-03-01	201200598	-	48 Vac	Led	160 FPM	N.A	65	Amber
LEDD100-03-02	201200599	-	48 Vac	Led	160 FPM	N.A	65	Red
LEDD100-03-04	201200600	-	48 Vac	Led	160 FPM	N.A	65	Green
LEDD100-05-01	201200601	-	40-380 Vdc / 85-280 Vac	Led	160 FPM	N.A	65	Amber
LEDD100-05-02	201200602	-	40-380 Vdc / 85-280 Vac	Led	160 FPM	N.A	65	Red
LEDD 100-05-04	201200603	-	40-380 Vdc / 85-280 Vac	Led	160 FPM	N.A	65	Green
LEDA100-01-01	201200604	-	8-20 Vac/Vdc	Led	160 FPM	80 dB	65	Amber
LEDA100-01-02	201200605	-	8-20 Vac/Vdc	Led	160 FPM	80 dB	65	Red
LEDA100-01-04	201200606	-	8-20 Vac/Vdc	Led	160 FPM	80 dB	65	Green
LEDA100-02-01	201200607	-	20-30 Vac/Vdc	Led	160 FPM	80 dB	65	Amber
LEDA100-02-02	201200608	-	20-30 Vac/Vdc	Led	160 FPM	80 dB	65	Red
LEDA100-02-04	201200609	-	20-30 Vac/Vdc	Led	160 FPM	80 dB	65	Green
LEDA100-03-01	201200610	-	48 Vac	Led	160 FPM	80 dB	65	Amber
LEDA100-03-02	201200611	-	48 Vac	Led	160 FPM	80 dB	65	Red
LEDA100-03-04	201200612	-	48 Vac	Led	160 FPM	80 dB	65	Green
LEDA100-05-01	201200613	-	40-380 Vdc / 85-280 Vac	Led	160 FPM	80 dB	65	Amber
LEDA100-05-02	201200614	-	40-380 Vdc / 85-280 Vac	Led	160 FPM	80 dB	65	Red
LEDA100-05-04	201200615	-	40-380 Vdc / 85-280 Vac	Led	160 FPM	80 dB	65	Green

# INDUSTRIAL SIGNALLING

## • LED-401

### Characteristics:

- 3 different signaling options in a single article: continuous, intermittent, rotating
- Long-life LED light (144 LEDs)
- Surface or wall mounting
- 360 ° on the vertical axis
- No maintenance
- Dimensions: Ø150x205

### Applications:

- Fire Alarms
- Process control
- Cranes
- Machinery
- Forklifts
- Beacon



LED-401

Article	Code	EAN 13	Voltage	Light	Type	IP	Color
LEDD 401-02-01	201200211	8435394713021	24 Vdc	Led	60FPM-140RPM	65	Amber
LEDD 401-02-02	201200212	8435394713038	24 Vdc	Led	60FPM-140RPM	65	Red
LEDD 400-04-01	201200423	8435394714783	230 Vac	Led	60FPM-140RPM	65	Amber
LEDD 400-04-02	201200424	8435394714790	230 Vac	Led	60FPM-140RPM	65	Red

\* Possibility of different colors on request.

# INDUSTRIAL SIGNALLING

## • Lampes rotatives R/RA/200/201\*

### Characteristics:

- Wide range of voltages
- Surface mounting
- Availability of magnetic base
- 360 ° around the vertical axis
- Version with polarized diode
- For fire alarms
- Dimensions: Ø115x205

### Applications:

- Fire Alarms
- Cranes
- Machinery
- Forklifts
- Beacon



R200/201

RA200/201

Article	Code	EAN 13	Voltage	Light	Type	Sound	IP
R 200-04	201200443	8435394714981	115 Vac	Ba15d x 60W	120 RPM	N.A	65
R 200-05	201200444	8435394714998	230 Vac	Ba15d x 60W	120 RPM	N.A	65
R 201-13	201200445	8435394715001	12 Vdc	H1 x 55W	160 RPM	N.A	65
R 201-14	201200446	8435394715018	24 Vdc	H1 x 70W	160 RPM	N.A	65
R 201-60	201200447	8435394715025	12 Vdc	Ba15d x 21W	160 RPM	N.A	65
R 201-61	201200448	8435394715032	24 Vdc	Ba15d x 21W	160 RPM	N.A	65
R 201-62	201200449	8435394715049	12 Vdc	Ba15d x 48W	160 RPM	N.A	65
R 201-63	201200450	8435394715056	24 Vdc	Ba15d x 48W	160 RPM	N.A	65
RA 201-20	201200436	8435394714912	12 Vdc	H1 x 55W	160 RPM	N.A	65
RA 201-21	201200437	8435394714929	24 Vdc	H1 x 70W	160 RPM	90 dB	65
RA 200-24	201200434	8435394714899	115 Vac	Ba15d x 60W	120 RPM	90 dB	65
RA 200-25	201200435	8435394714905	230 Vac	Ba15d x 60W	120 RPM	90 dB	65

\* Dome not included. See domes available in table below.

## • Polycarbonate domes

### Characteristics:

- Made of UV-resistant polycarbonate
- Valid for models 200 and 201
- Degree of protection: IP65



Article	Code	EAN 13	Dome color
Cupula 50064 Ámbar	201200303	8435394713588	Amber
Cupula 50065 Roja	201200304	8435394713595	Red
Cupula 50066 Azul	201200305	8435394713601	Blue
Cupula 50067 Verde	201200306	8435394713618	Green
Cupula 50068 Transparente	201200307	8435394713625	Transparent



## • Xenon lights X-85

### Characteristics:

- Wide range of voltages
- Compact design
- Anti-vandalism security mechanism
- Flash operation
- Dimensions: Ø85x81 mm



### Applications:

- Fire alarm
- Emergency signaling
- Process control
- Cranes
- Construction
- Beacon
- Emergency doors



X-85

Article	Code	EAN 13	Voltage	Light	Type	IP	Color
X85-02-02	202200027	8435394716961	12-24 Vdc	Xenon	60 FPM	65	Red
X85-02-01	202200038	8435394735191	12-24 Vdc	Xenon	60 FPM	65	Amber
X85-02-05	202200039	8435394735207	12-24 Vdc	Xenon	60 FPM	65	White
X85-02-03	202200040	8435394735214	12-24 Vdc	Xenon	60 FPM	65	Blue
X85-02-04	202200041	8435394735221	12-24 Vdc	Xenon	60 FPM	65	Green
X85-03-02	202200042	8435394735238	110 Vac	Xenon	60 FPM	65	Red
X85-03-01	202200043	8435394735245	110 Vac	Xenon	60 FPM	65	Amber
X85-03-05	202200044	8435394735252	110 Vac	Xenon	60 FPM	65	White
X85-03-03	202200045	8435394735269	110 Vac	Xenon	60 FPM	65	Blue
X85-03-04	202200046	8435394735276	110 Vac	Xenon	60 FPM	65	Green
X85-04-02	202200047	8435394735283	230 Vac	Xenon	60 FPM	65	Red
X85-04-01	202200048	8435394735290	230 Vac	Xenon	60 FPM	65	Amber
X85-04-05	202200049	8435394735306	230 Vac	Xenon	60 FPM	65	White
X85-04-03	202200050	8435394735313	230 Vac	Xenon	60 FPM	65	Blue
X85-04-04	202200051	8435394735320	230 Vac	Xenon	60 FPM	65	Green

## • Electronic siren SONOS

### Characteristics:

- Acoustic, luminous or combined device
- Luminous versions offer LED or Xenon technology
- Wide range of voltages
- The acoustic versions offer 32 tones
- Selectable at base
- 2 alarm states
- Synchronizable
- Volume control: 20 dB
- Sound can be independent of light
- According to En54-3 type A and B

### Applications:

- Fire alarm
- Factories
- Cranes
- Parkings
- Airports
- Train stations
- Sports centre



**SONOS HIGH BASE IP65**



**SONOS LOW BASE IP21**

Article	Code	EAN 13	Voltage	Light	Type	Sound	IP	Color
Sonos 9-60 Vdc	202100607	8435394716640	9-60 Vdc	N.A	N.A	106 dB	21	N.A.
Sonos 9-60 Vdc	202100608	8435394716657	9-60 Vdc	N.A	N.A	106 dB	65	N.A.
Sonos 110-230 Vac	202100594	8435394716510	230 Vac	N.A	N.A	106 dB	65	N.A.
Sonos 10-60 Vdc XN	202100632	8435394716503	10-60 Vdc	Xenon	60-120 FPM	N.A	65	Red
Sonos 10-60 Vdc XN	202100593	8435394716503	10-60 Vdc	Xenon	60-120 FPM	N.A	65	Amber
Sonos 110-230 Vac XN	202100598	8435394716558	110-230 Vac	Xenon	60-120 FPM	N.A	65	Red
Sonos 110-230 Vac XN	202100597	8435394716541	110-230 Vac	Xenon	60-120 FPM	N.A	65	Amber
Sonos 17-60 Vdc LD	202100600	8435394716572	17-60 Vdc	LED	60 FPM	N.A	21	Red
Sonos 17-60 Vdc LD	202100599	8435394716565	17-60 Vdc	LED	60 FPM	N.A	21	Amber
Sonos 17-60 Vdc LD	202100604	8435394716619	17-60 Vdc	LED	60 FPM	N.A	65	Red
Sonos 17-60 Vdc LD	202100603	8435394716602	17-60 Vdc	LED	60 FPM	N.A	65	Amber
Sonos 17-60 Vdc LD+SIR	202100602	8435394716596	17-60 Vdc	LED	60FPM	106 dB	21	Red
Sonos 17-60 Vdc LD+SIR	202100601	8435394716589	17-60 Vdc	LED	60 FPM	106 dB	21	Amber
Sonos 17-60 Vdc LD+SIR	202100606	8435394716633	17-60 Vdc	LED	60 FPM	106 dB	65	Red
Sonos 17-60 Vdc LD+SIR	202100605	8435394716626	17-60 Vdc	LED	60 FPM	106 dB	65	Amber
Sonos 110-230 Vac LD+SIR	202100596	8435394716534	110-230 Vac	LED	60 FPM	106 dB	65	Red
Sonos 110-230 Vac LD+SIR	202100595	8435394716527	110-230 Vac	LED	60 FPM	106 dB	65	Amber

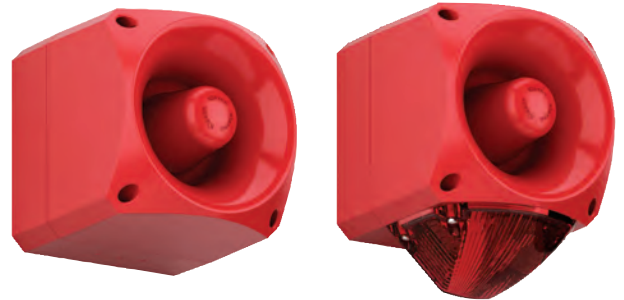
## • Electronic siren NEXUS

### Characteristics:

- High power siren with possibility to incorporate visual signaling
- Its high degree of protection makes it reliable in any condition
- Wide range of voltages
- 64 selectable tones on base
- 3 alarm states
- Synchronized
- Volume control: 20 dB
- According to EN 54-3 type B
- Light versions with flash operation

### Applications:

- Fire alarm
- Factories
- Mining
- Airports
- Stations
- Parkings



Article	Code	EAN 13	Voltage	Light	Type	Sound	IP	Color
Nexus 105 10-60 Vdc	202100568	8435394716251	9-60 Vdc	N.A	N.A	113 dB	66	N.A.
Nexus 105 110-230 Vac	202100571	8435394716282	110-230 Vac	N.A	N.A	113 dB	66	N.A.
Nexus 110 10-60 Vdc	202100574	8435394716312	9-60 Vdc	N.A	N.A	116 dB	66	N.A.
Nexus 110 110-230 Vac	202100577	8435394716343	110-230 Vac	N.A	N.A	116 dB	66	N.A.
Nexus 120 10-60 Vdc	202100581	8435394716381	9-60 Vdc	N.A	N.A	120 dB	66	N.A.
Nexus 120 110-230 Vac	202100584	8435394716411	110-230 Vac	N.A	N.A	120 dB	66	N.A.
Nexus 105 10-60 SIR+XN Vdc	202100569	8435394716268	9-60 Vdc	Xenon	60 FPM	113 dB	66	Amber
Nexus 105 10-60 SIR+XN Vdc	202100570	8435394716275	9-60 Vdc	Xenon	60 FPM	113 dB	66	Red
Nexus 105 110-230 SIR+XN Vac	202100572	8435394716299	110-230 Vac	Xenon	60 FPM	113 dB	66	Amber
Nexus 105 110-230 SIR+XN Vac	202100573	8435394716305	110-230 Vac	Xenon	60 FPM	113 dB	66	Red
Nexus 110 10-60 SIR+XN Vdc	202100575	8435394716329	9-60 Vdc	Xenon	60 FPM	116 dB	66	Amber
Nexus 110 10-60 SIR+XN Vdc	202100576	8435394716336	9-60 Vdc	Xenon	60 FPM	116 dB	66	Red
Nexus 110 110-230 SIR+XN Vac	202100578	8435394716350	110-230 Vac	Xenon	60 FPM	116 dB	66	Amber
Nexus 110 110-230 SIR+XN Vac	202100579	8435394716367	110-230 Vac	Xenon	60 FPM	116 dB	66	Red
Nexus 120 10-60 SIR+XN Vdc	202100582	8435394716398	9-60 Vdc	Xenon	60 FPM	120 dB	66	Amber
Nexus 120 10-60 SIR+XN Vdc	202100583	8435394716404	9-60 Vdc	Xenon	60 FPM	120 dB	66	Red
Nexus 120 110-230 SIR+XN Vac	202100585	8435394716428	110-230 Vac	Xenon	60 FPM	120 dB	66	Amber
Nexus 120 110-230 SIR+XN Vac	202100586	8435394716435	110-230 Vac	Xenon	60 FPM	120 dB	66	Red

# INDUSTRIAL SIGNALLING

## • Processes signaling TPL-50

### Characteristics:

- Plug-in modular system
- Each module incorporates its LEDs
- Possibility of combining with acoustic signaling
- Dimensions: Ø50 mm
- Each tower consists of the following elements:
  - Support
  - Base
  - LED modules
  - Buzzer (optional)
  - Cover

### Applications:

- Processes signaling
- Industrial automation
- Machinery



KPS-TPL50



List of LED modules and minbuzzers 50 mm diameter. Other accessories see Accessories section

Article	Code	EAN 13	Voltage	Consumption	Light	Type	Sound	IP	Color
KPS-TPL50 Ambar 24V AC/DC	203200003	8435394732985	24 VDC/AC	2 W	Led	Fixed/Flash	N.A	65	Amber
KPS-TPL50 Roja 24V AC/DC	203200004	8435394732992	24 VDC/AC	2 W	Led	Fixed/Flash	N.A	65	Red
KPS-TPL50 Verde 24V AC/DC	203200005	8435394733005	24 VDC/AC	2 W	Led	Fixed/Flash	N.A	65	Green
KPS-TPL50 Azul 24V AC/DC	203200020	8435394739038	24 VDC/AC	2 W	Led	Fixed/Flash	N.A	65	Blue
KPS-TPL50 Blanco 24V AC/DC	203200021	8435394739045	24 VDC/AC	2 W	Led	Fixed/Flash	N.A	65	White
KPS-TPL50 Ambar 110V AC	203200028	8435394740461	110 VAC	2 W	Led	Fixed/Flash	N.A	65	Amber
KPS-TPL50 Roja 110V AC	203200029	8435394740478	110 VAC	2 W	Led	Fixed/Flash	N.A	65	Red
KPS-TPL50 Verde 110V AC	203200030	8435394740485	110 VAC	2 W	Led	Fixed/Flash	N.A	65	Green
KPS-TPL50 Azul 110V AC	203200031	8435394740492	110 VAC	2 W	Led	Fixed/Flash	N.A	65	Blue
KPS-TPL50 Blanco 110V AC	203200032	8435394740508	110 VAC	2 W	Led	Fixed/Flash	N.A	65	White
KPS-TPL50 Ambar 230V AC	203200006	8435394733012	230 VAC	2 W	Led	Fixed/Flash	N.A	65	Amber
KPS-TPL50 Roja 230V AC	203200007	8435394733029	230 VAC	2 W	Led	Fixed/Flash	N.A	65	Red
KPS-TPL50 Verde 230VAC	203200008	8435394733036	230 VAC	2 W	Led	Fixed/Flash	N.A	65	Green
KPS-TPL50 Azul 230V AC	203200022	8435394739052	230 VAC	2 W	Led	Fixed/Flash	N.A	65	Blue
KPS-TPL50 Blanco 230V AC	203200023	8435394739069	230 VAC	2 W	Led	Fixed/Flash	N.A	65	White
KPS-TPB50 24 Minizumbador	203200015	8435394733104	24 VDC/AC	2 W	N.A	N.A	80 dB	65	N.A
KPS-TPB50 110 Minizumbador	203200016	8435394733111	110 VAC	2 W	N.A	N.A	100 dB	65	N.A
KPS-TPB50 230 Minizumbador	203200017	8435394733128	230 VAC	2 W	N.A	N.A	100 dB	65	N.A

# INDUSTRIAL SIGNALLING

## • Processes signalling TPL-70

### Characteristics:

- Plug-in modular system
- Each module incorporates its LEDs
- Possibility of combining with acoustic signaling
- Dimensions: Ø70 mm
- Each tower consists of the following elements:
  - Support
  - Base
  - LED modules
  - Buzzer (optional)
  - Cover

### Applications:

- Processes signaling
- Industrial automation
- Machinery



KPS-TPL70

List of LED modules and minbuzzers 70 mm diameter. Other accessories see Accessories section

Article	Code	EAN 13	Voltage	Consumption	Light	Type	Sound	IP	Color
KPS-TPL70 Ambar 24V AC/DC	203200034	8435394740522	24 VDC/AC	2 W	Led	Fixed/Flash	N.A	65	Amber
KPS-TPL70 Roja 24V AC/DC	203200035	8435394740539	24 VDC/AC	2 W	Led	Fixed/Flash	N.A	65	Red
KPS-TPL70 Verde 24V AC/DC	203200036	8435394740546	24 VDC/AC	2 W	Led	Fixed/Flash	N.A	65	Green
KPS-TPL70 Azul 24V AC/DC	203200037	8435394740553	24 VDC/AC	2 W	Led	Fixed/Flash	N.A	65	Blue
KPS-TPL70 Blanco 24V AC/DC	203200038	8435394740560	24 VDC/AC	2 W	Led	Fixed/Flash	N.A	65	White
KPS-TPL70 Ambar 110V AC	203200039	8435394740577	110 VAC	2 W	Led	Fixed/Flash	N.A	65	Amber
KPS-TPL70 Roja 110V AC	203200040	8435394740584	110 VAC	2 W	Led	Fixed/Flash	N.A	65	Red
KPS-TPL70 Verde 110V AC	203200041	8435394740591	110 VAC	2 W	Led	Fixed/Flash	N.A	65	Green
KPS-TPL70 Azul 110V AC	203200042	8435394740607	110 VAC	2 W	Led	Fixed/Flash	N.A	65	Blue
KPS-TPL70 Blanco 110V AC	203200043	8435394740614	110 VAC	2 W	Led	Fixed/Flash	N.A	65	White
KPS-TPL70 Ambar 220V AC	203200044	8435394740621	230 VAC	2 W	Led	Fixed/Flash	N.A	65	Amber
KPS-TPL70 Roja 220V AC	203200045	8435394740638	230 VAC	2 W	Led	Fixed/Flash	N.A	65	Red
KPS-TPL70 Verde 220V AC	203200046	8435394740645	230 VAC	2 W	Led	Fixed/Flash	N.A	65	Green
KPS-TPL70 Azul 220V AC	203200047	8435394740652	230 VAC	2 W	Led	Fixed/Flash	N.A	65	Blue
KPS-TPL70 Blanco 220V AC	203200048	8435394740669	230 VAC	2 W	Led	Fixed/Flash	N.A	65	White
KPS-TPB70 24 Minizumbador	203200049	8435394740676	24 VDC/AC	2 W	N.A	N.A	80 dB	65	N.A
KPS-TPB70 110 Minizumbador	203200050	8435394740683	110 VAC	2 W	N.A	N.A	100 dB	65	N.A
KPS-TPB70 230 Minizumbador	203200051	8435394740690	230 VAC	2 W	N.A	N.A	100 dB	65	N.A



## • Accessories for processes signaling TPL

- Each tower needs:
  - 1x mounting brackets (4 models)
  - 1x base (KPS-TPBI)
  - 1x cover (KPS-TPC)



KPS-TPBI  
Base



KPS-TPC  
Cover



KPS-TPS



KPS-TPSAT

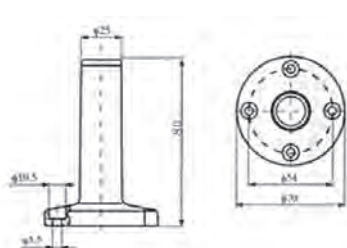


KPS-TPSAL

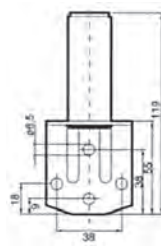


KPS-TPSR

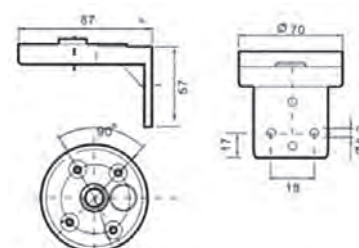
Mounting brackets



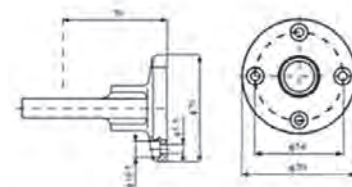
KPS-TPS



KPS-TPSAT



KPS-TPSAL



KPS-TPSR

Article	Code	EAN 13	IP
KPS-TPC50 Tapa	203200033	8435394740515	65
KPS-TPBI50 Base	203200057	8435394740751	65
KPS-TPBI70 Base	203200052	8435394740706	65
KPS-TPC70 Tapa	203200053	8435394740713	65
KPS-TPSAT Soporte	203200054	8435394740720	N.A
KPS-TPSAL Soporte	203200055	8435394740737	N.A
KPS-TPSR Soporte	203200056	8435394740744	N.A
KPS-TPS Soporte	203200018	8435394733135	N.A

# INDUSTRIAL SIGNALLING

## • Tricolor lamp

### Characteristics:

- LED tricolor lamp (red, green, amber)
- High visibility
- Modern design that allows a 90° turn
- Built-in buzzer
- Dimensions: Ø60x278 mm
- Continuous light and acoustic signaling

### Applications:

- Processes signaling
- Industrial automation
- Machinery



Article	Code	EAN 13	Voltage	Sound	Light	Installation
KPS-LED 60 24	203200076	-	24 VDC	90dB	Fixed	Surface
KPS-LED 60 230	203200077	-	230 VAC	90dB	Fixed	Surface

## • Magnetic Sensors

### Characteristics:

- Different contact configurations:
  - Switched NA and NC contact
  - Normally open (NO):  
Closes when the magnet is detected
- Models suitable for different ways of installation
- Versions fed to direct voltage, suitable for use in conjunction with PLCs

### Applications:

- Store In / Out Control
- Light Switch for Cabinets
- Activation of acoustic or light signals
- Air conditioning control



Article	Code	EAN 13	Máx. voltage	Máx. intensity	Contacts	Installation	Color
KPS-IM-05	801700002	8435394739298	230 VAC	5A	Switched	Surface	White
KPS-IMB-01 B	801700000	8435394739274	200 VDC	300 mA	NA	Surface	White
KPS-IMB-01 G	801700001	8435394739281	200 VDC	300 mA	NA	Surface	Grey
KPS-IME-05	801700003	8435394739304	100 VDC	500 mA	NA	Recessed	White
KPS-IMS-01	801700004	8435394739311	100 VDC	500 mA	NA	Floor	Grey

# Industrial Signalling

All the solutions for industrial environments

## OBSTACLE SIGNALLING

- Product according to ICAO 14
- LED lighting
- Low, medium and high intensity
- GPRS synchronization



## FIRE SIGNALLING

- According to EN 54-23
- Pulse-led technology
- Ceiling-wall fixing
- The broadest market coverage



## EXPLOSIVE ENVIRONMENTS SIGNALLING

- ATEX and IECEx certified products
- Visual and acoustic
- Industrial/marine/mining environments



## LONG-DISTANCE SIGNALLING

- Motorized sirens
- Electronic sirens with configurable messages
- Cabinets and control devices for sirens



More information  
[info@kps-euman.com](mailto:info@kps-euman.com)  
**+34.985.081.873**





#### KPS Spain

Parque Empresarial de Argame  
C\ Picu Castiellu, i-1 a i-3

C.P.: E-33163 Argame, Morcín  
Asturias, España, (Spain)

info@kps-soluciones.es  
www.soluciones.es  
Tel.: +34 985 081 870  
 + 34 673 808 571

#### KPS Portugal

Rua 5 de Outubro, 22. 1.º Esq.

2775-562 CARCAVELOS  
(Portugal)

info@kps.pt  
www.kps.pt  
Tel. +351 932 750 007

#### KPS Mexico

Colonia Industrial Vallejo  
Del. Azcapotzalco

Calle Poniente 122, N° 473, C  
C.P. 02300 - México D.F.

info@kps-soluciones.com.mx  
www.soluciones.com.mx  
Tel.: +52 55 5368 0577

**www.kps-euman.com**  
**info@kps-euman.com**