



## The indications you need. The way you want.

New **CR** Semaphore LED Indicators. Top quality, Made in Italy, DOMO.

SERIES CATALOGUE WITH FEATURES AND INSTALLATION GUIDES



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## DOMO. Made in Italy quality for worldwide solutions.

At DOMO we are deeply aware of the importance of the quality that you are looking for.

Therefore we always do our best to provide it.

Our catalogue includes a range of standard products that goes far beyond our competitors'. They are all made with the best materials, designed and assembled directly in Italy.

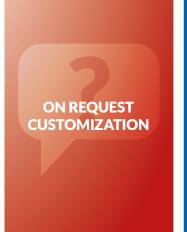
But we do not stop here: we also offer custom-made options for each of our products, to create tailor-made solutions always fit for your needs. Finally, we do not sell products only, but also services: pre-cabling, wiring diagrams, mosaic mimic panels, logistics, pre-orders, shipping and delivery.

That's why when you choose DOMO you know that you are choosing quality.



**HIGH QUALITY MATERIALS** 

**HIGH END TECHNOLOGY** 









**FUNCTIONAL DESIGN** 

**CLIENT CENTERED SERVICE** 



# **CR** Series



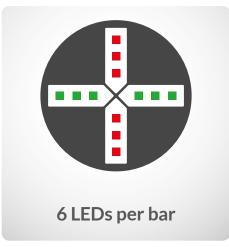


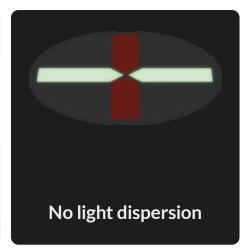


3 different sizes























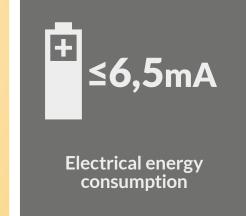
24V AC/DC

48V AC/DC **130V** AC/DC

**230V** AC/DC

Or customizable upon request.

Power supply voltage (+/- 10%)





### Technical features









16/24



**LARGE** 22/30

22/48

#### **Head Type**

**Head Shape** 

Α **Protruding** 







Flush В









Square head, round display

#### **Semaphore Colors**





Round head,

round display







Square head,

round display















## **Connection type**





### **Extra features**



Inbuilt Protection Diodes\*





**Tropicalization** 



Flying Leads



### **Specific features**



Inbuilt Rectifier Bridge To operate both in alternating (Vac) and direct current (Vdc).



Zener Diode Provides low voltage glow protection.3

#### **Head Type**





mounting





#### **Semaphore Colors**

















### Power supply voltage









#### **Connection type**









### **Extra features**



Inbuilt Protection Diodes\*



Inbuilt Lamp Test\*



Flying Leads

**Tropicalization** 



**Double Common + Double** Inbuilt Lamp Test\*

### Specific features



Inbuilt Rectifier Bridge To operate both in alternating (Vac) and direct current (Vdc).



Zener Diode Provides low voltage glow protection.\*

#### **Head Type**



Protruding

#### **Head Shape**





Square head, round display

#### **Semaphore Colors**







## Power supply voltage







#### **Connection type**









### **Extra features**



**Inbuilt Protection Diodes\*** 



Inbuilt Lamp Test\* **Tropicalization** 



Flying Leads



#### **Specific features**



Inbuilt Rectifier Bridge To operate both in alternating (Vac) and direct current (Vdc).



16/24



22/30

**LARGE** 

22/48

#### **Degree of Protection**



IP54

#### Service life



>100.000h at 25°C

## Ambient air temperature



For storage -40... +70°C



For operation -20... +40°C

#### **Materials**



Polycarbonate (PC) V0/UL 94



**PMMA** 



4 Layers PCB

### **Bulb base**

Integral LED

#### **Device presentation**

Monolithic product

#### Vibration resistance

5gn (f = 2...500 Hz) conforming to IEC 60068-2-6

### **Electromagnetic compatibility**

Disturbing field emission class B conforming to EN 55011

#### Weight



(HD) 0,13g 0,16g







- **REACh free of SVHC**
- Mercury free
- Toxic heavy metal free







#### **Degree of Protection**



IP54

#### Service life



>100.000h at 25°C

#### Ambient air temperature



For storage -40... +70°C



For operation -20... +40°C

#### **Materials**



Polycarbonate (PC) V0/UL 94



**PMMA** 

#### PCB



4 Layers PCB

#### **Bulb base**

Integral LED

#### **Device presentation**

Monolithic product

#### Vibration resistance

5gn (f = 2...500 Hz) conforming to IEC 60068-2-6

#### **Electromagnetic compatibility**

Disturbing field emission class B conforming to EN 55011

#### Weight



(HD) 0,18g 0,21g







- REACh free of SVHC
- Mercury free
- Toxic heavy metal free







#### **Degree of Protection**



IP54

#### Service life



>100.000h at 25°C

#### Ambient air temperature



For storage -40... +70°C



For operation -20... +40°C

#### **Materials**



Polycarbonate (PC) V0/UL 94



**PMMA** 

#### **PCB**



4 Layers PCB

#### **Bulb base**

Integral LED

#### **Device presentation**

Monolithic product

#### Vibration resistance

5gn (f = 2...500 Hz) conforming to IEC 60068-2-6

#### **Electromagnetic compatibility**

Disturbing field emission class B conforming to EN 55011

#### Weight





(TV) 0,33g

(SP) (st)0,42g 0,42g

- REACh free of SVHC
- Mercury free
- Toxic heavy metal free







#### Power Supply Limit

· one: supply simile				
	RANGE			
24V	13V 30V			
48V	15V 60V			
130V	70V 150V			
230V	160V 265V			
	24V 48V 130V			

#### **Electrical Energy Consumption**

		GREEN	RED	
币	24V	6,5mA	2,6mA	
	48V	5,2mA	4,2mA	
	130V	6,0mA	5,6mA	
	230V	5,2mA	5,0mA	

#### Compliance

Directive 2006/95/EC Low Voltage Directive 2004/108/EC Electromagnetic Compatibility Directive 2011/65/EC RhOS

#### Directive 2006/42/EC Machine **Conformity to standards**

EN 60947.5.1 / EN 60073 / EN 60529 / EN 60068-2-6 / EN 60204.1/EN ISO 7731/EN 981/IEC 536

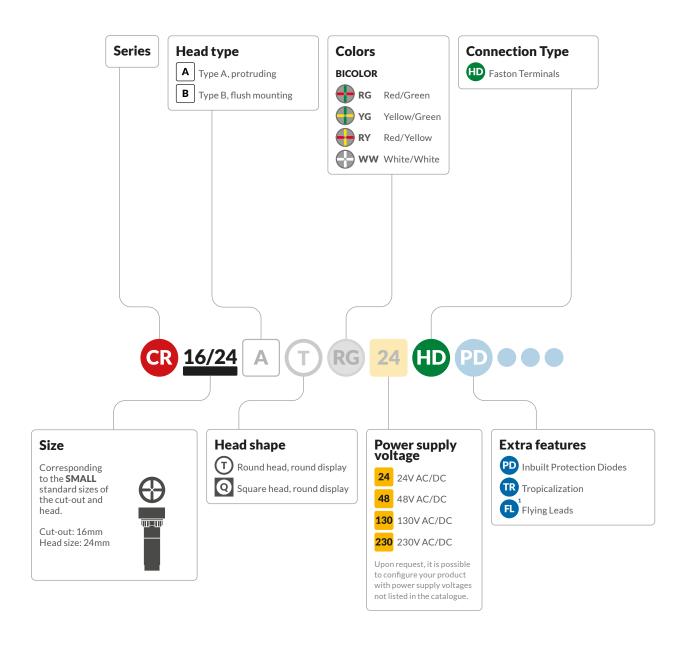
#### Warranty

Warranty period is eighteen (18) months and starts from the goods delivery date.





## **Solutions**



#### **CODES EXAMPLES**

CR16/24A T RG 24 HD CR16/24B Q WW 130 HD PD CR16/24A Q YG 230 HD TR

#### IMPORTANT NOTES ABOUT THIS DEVICE

#### сом-

By default, the polarity of the device is in **Negative Common**. Upon request, we can configure your product in **Positive Common**.

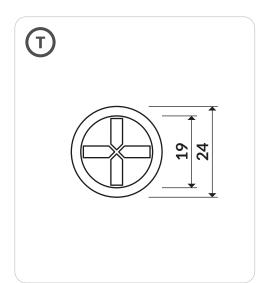
 ${\bf 1)} \ lf \ {\bf FL} \ feature \ is \ requested, your \ order \ must \ specify \ wires \ length, cross \ section \ and \ eventual \ terminals \ to \ be \ applied.$ 

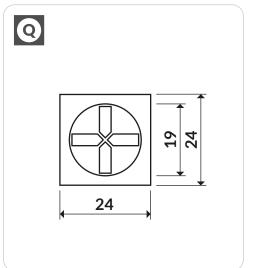


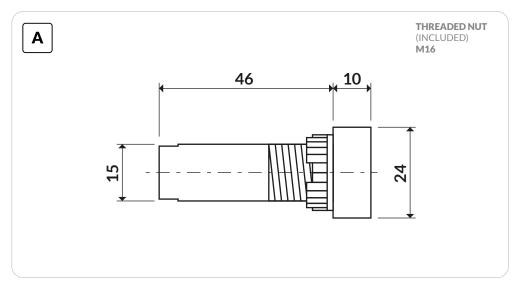


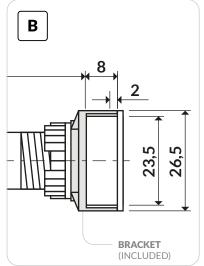


# Dimensions (mm 1:1)







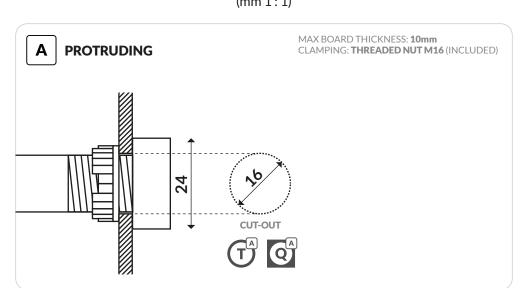


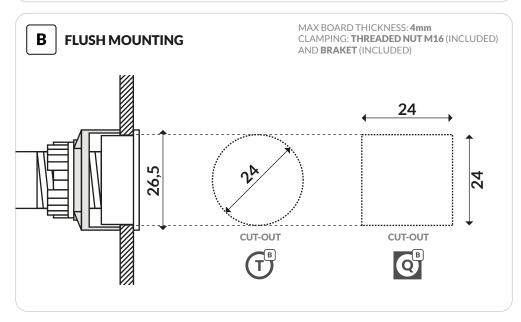




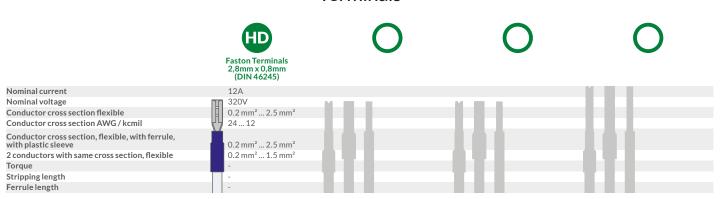


# Device mounting (mm 1:1)





## **Terminals**

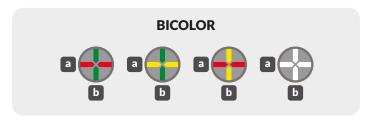


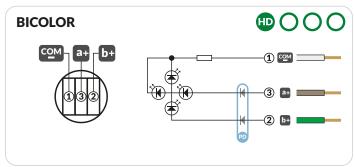






## Wiring





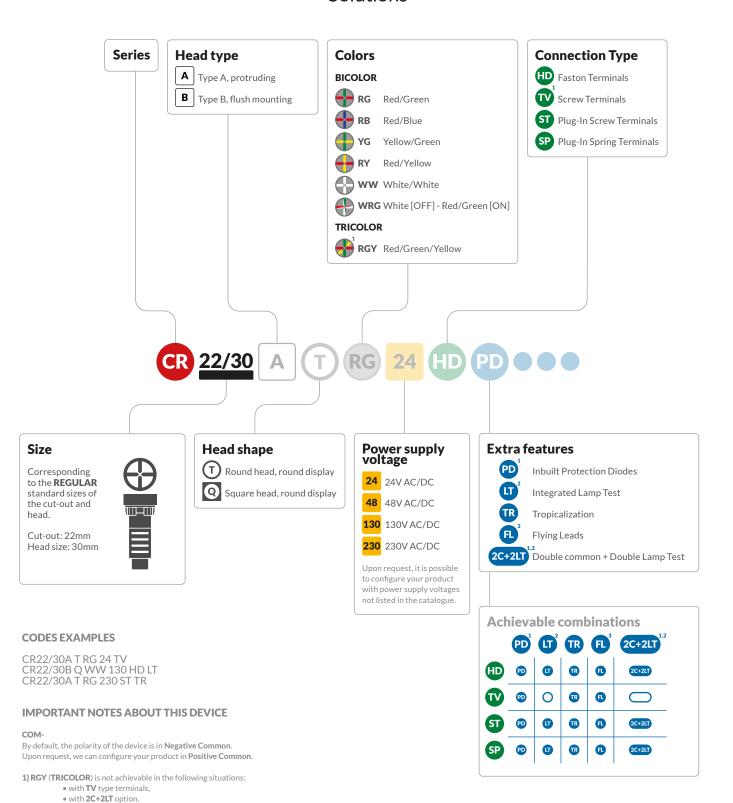








### Solutions





2) 2C+2LT, if requested, it replaces LT.

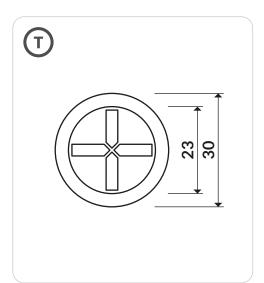
cross section and eventual terminals to be applied.

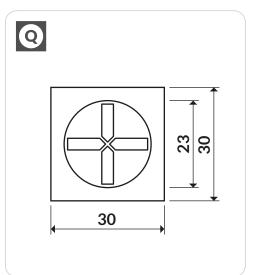
3) If FL feature is requested, your order must specify wires length,

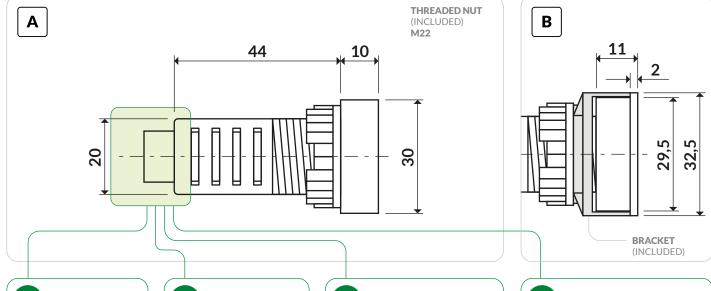


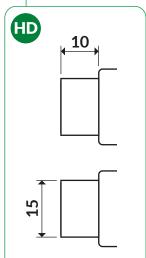


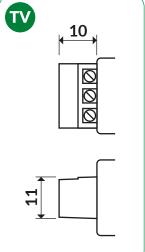
# Dimensions (mm 1:1)

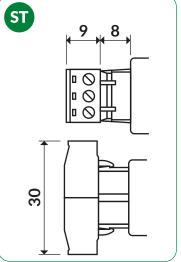


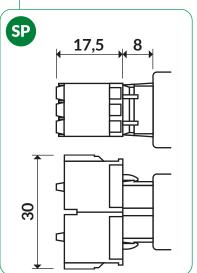








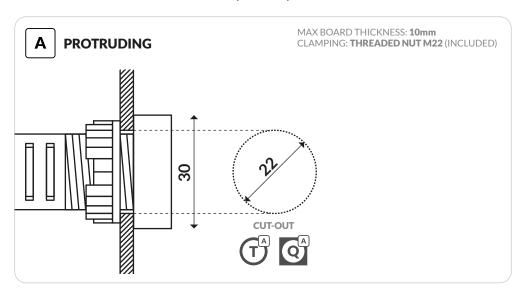


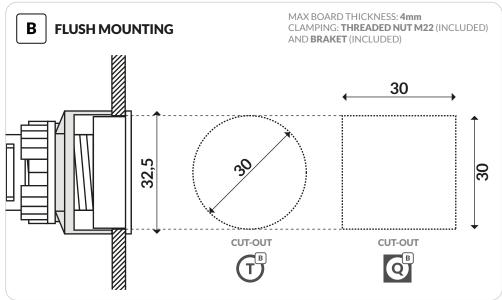




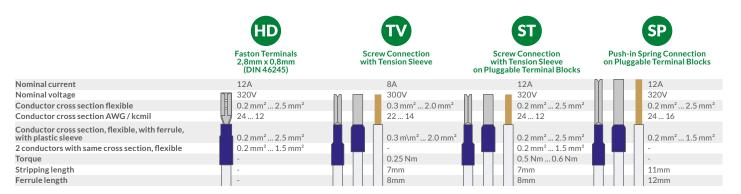


# Device mounting (mm 1:1)





## **Terminals**

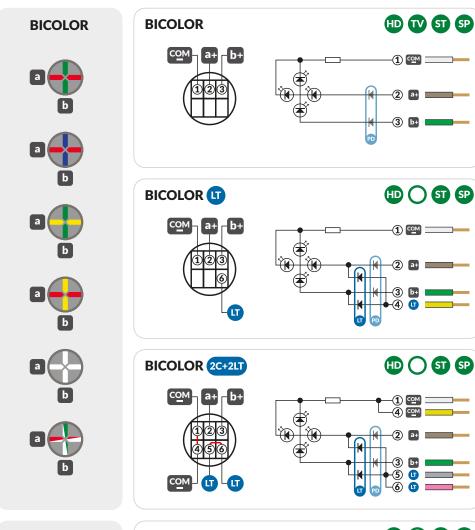


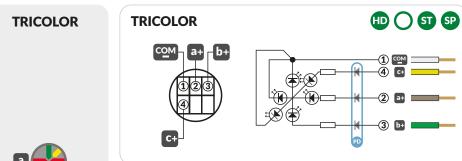




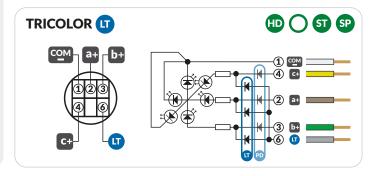


## Wiring









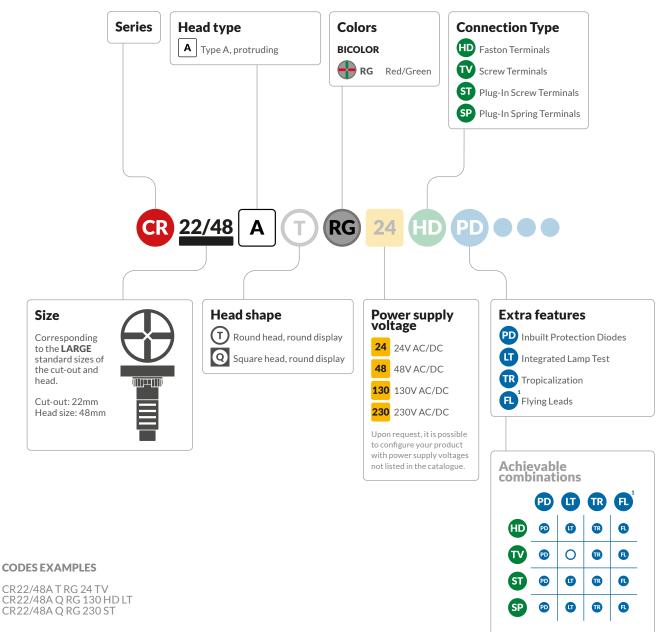








## Solutions



CR22/48A T RG 24 TV CR22/48A Q RG 130 HD LT

#### **IMPORTANT NOTES ABOUT THIS DEVICE**

By default, the polarity of the device is in Negative Common. Upon request, we can configure your product in **Positive Common**.

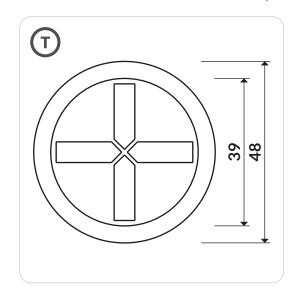
 $\textbf{1)} \ \mathsf{lf} \ \textbf{FL} \ \mathsf{feature} \ \mathsf{is} \ \mathsf{requested}, \mathsf{your} \ \mathsf{order} \ \mathsf{must} \ \mathsf{specify} \ \mathsf{wires} \ \mathsf{length},$ cross section and eventual terminals to be applied.

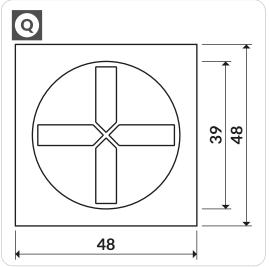


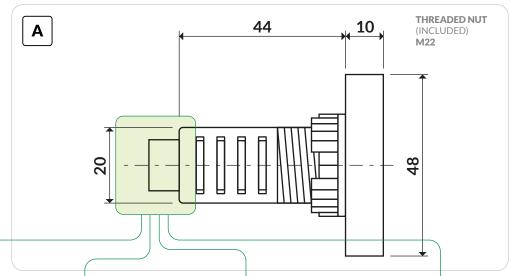


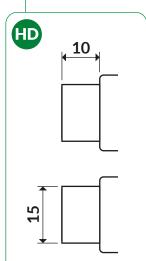


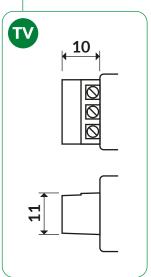
# Dimensions (mm 1:1)

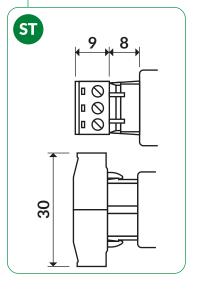


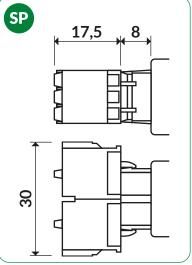










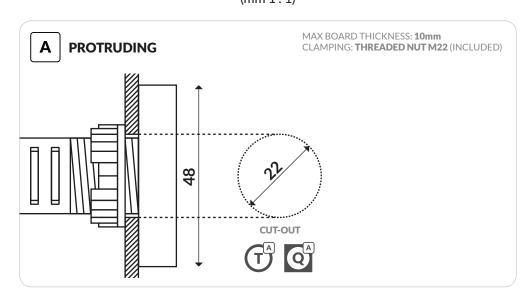




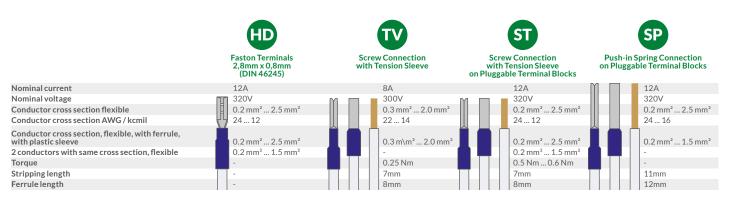




# Device mounting (mm 1:1)



## **Terminals**

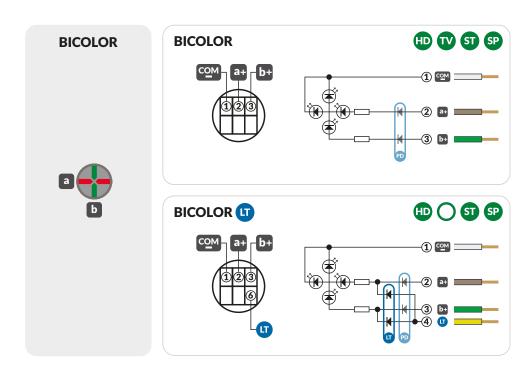








## Wiring



**EDOMO**.it

### **Connectors**











Faston Terminals 2,8mm x 0,8mm



Screw Connection with Tension Sleeve



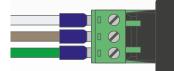
Screw Connection with Tension Sleeve on Pluggable Terminal Blocks

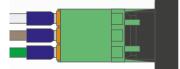


Push-in Spring Connection on Pluggable Terminal Blocks









## The freedom to get the right connections.

Classic Faston and Screw Terminals or new Plug-in Screw and Plug-in Spring Terminals: four different options to provide customized possibilities to meet your needs.



## **Inbuilt Protection**

It absorbs any incidental excess current to avoid reverse feeding, minimizing the risk of LEDs unexpected lighting and hazards to the electrical grid equipment.



## **Inbuilt Lamp Test**

Specific diodes integrated on the circuit require you to plug just one wire to test the LED functionality. No need of external tools for cabling, no extra work, no extra money and no extra space.



### **Tropicalization**

Enjoy a longer durability: a protective layer covers the whole circuit preventing the potential damages that may occour in dusty, saline, humid and oxidizing environments.



## Flying Leads

Don't waste your time with cabling: we can cable wires as long and thick as you need and mount them on the connection terminal you choose.

### Specific features



### Zener Diode

It avoids the risk of unexpected and random switch-ons. The Zener diode provides low voltage glow protection, to properly calibrate the minimum voltage required to switch on the LED Indicator.



## **Inbuilt Rectifier**

Thanks to the integrated rectifier bridge, the LED indicator can be powered with both AC or DC power supply without any error.

### Diodes voltage values

**CR** SMALL





RG, WW



PD 4000V



12V. 48V up to 12V 130V, 230V up to 56V





GY, RY

PD 2000V

**CR** REGULAR









RG. RB. WW

GY, RY, WRG, RGY

PD

4000V

4000V



up to 12V



RG



2400V



2400V



**CR** LARGE





