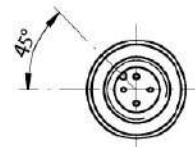
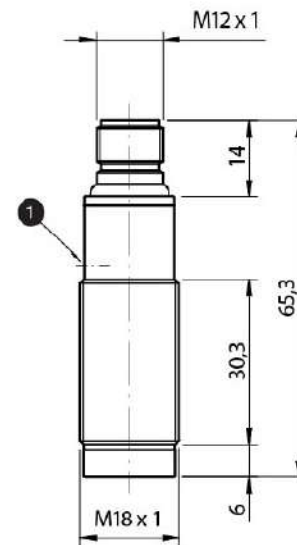


### M18 PHOTOELECTRIC SENSORS WITH SHORT BODY

- Wide range of models: direct diffuse, retro-reflective, polarized and fixed-focus
- Direct diffuse models with short and long sensing distance, polarized and through beam
- Nickel brass or plastic housing
- NO+NC complementary output
- P67 protection degree
- Complete protection against electrical damages
- Approvals: CE



Indicative image



1 trimmer

#### Detection properties

Nominal sensing distance  
Thermal drift of Sr  
Repeat Accuracy  
Sensitivity adjustment

4,5m  
≤10% Sr  
5%  
Trimmer

## Application

Function Principle	Polarized
Notes	On RL110 reflector
Optic position	Axial

## Outputs

Output type	PNP NO+NC
Output Function	NO+NC
Switching frequency	250Hz
Response time	2ms

## Electrical data

Operating Voltage	10...30VDC
No-Load supply current	≤ 30mA
Load current	≤50mA
Leakage current	≤10μA
Output voltage drop	≤2V@Iload=50mA
Max ripple content	≤10%
LED indicators	Yellow (status output)
Time delay before availability	≤200ms
Short-circuit protection	Short circuit (autoreset), Overvoltage
Reverse Polarity Protection	Polarity inversal, Impulsive voltage
Emission	LED Red (660nm)
Interference to external light	5000lux (incandescent lamp), 10000lux (sunlight)

## Mechanical data

Dimensions	M18 x 1 / L =66,3mm
Weight	20g
Housing Material	PBT / PC plug
Connections	M12 plug
Active Head Material	PMMA
Tightening torque	1Nm
Operating temperature	- 25°C...+ 70° C (senza withdensa)
Diameter/Dimension	M18

## Test/Approvals

Approvals	CE
EMC compatibility	EN 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP67

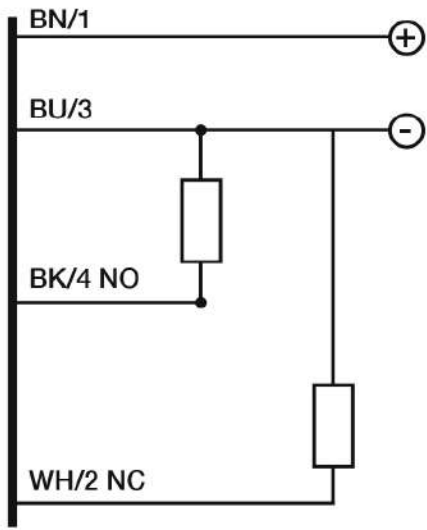
## Accessories

Supplied Accessories	nuts M18 x 1, screwdriver
----------------------	---------------------------

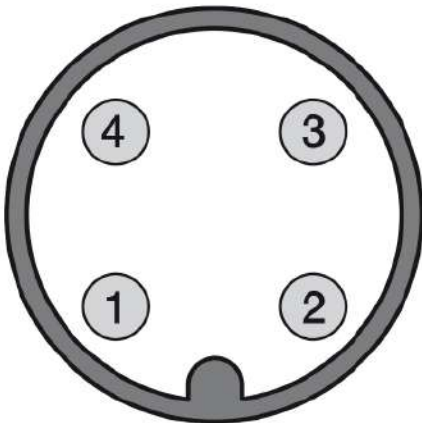
## Generical Data

Dimensions	M18 x 1 / L =66,3mm
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

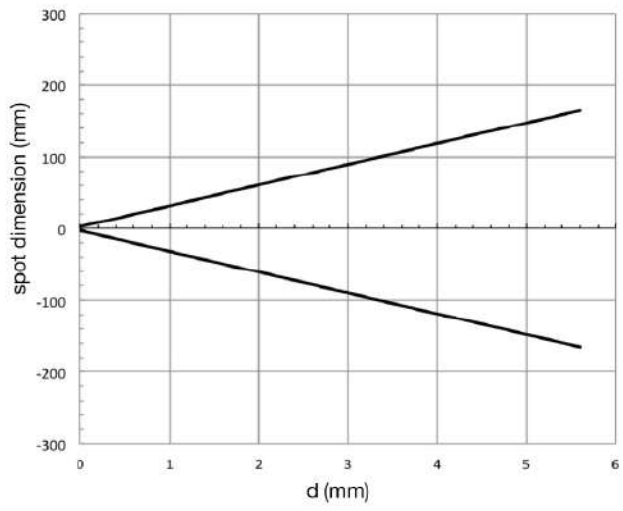


CONNECTOR

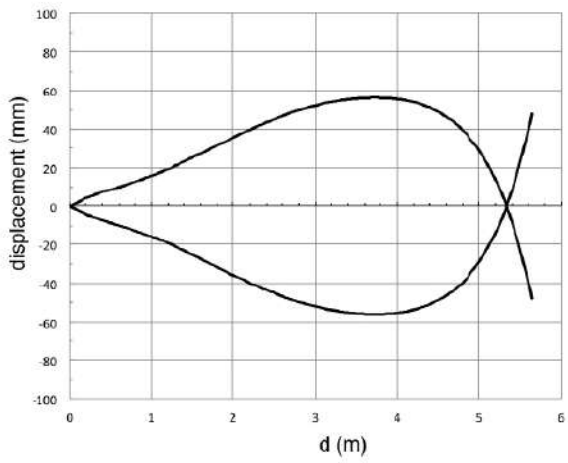


RESPONSE CURVES

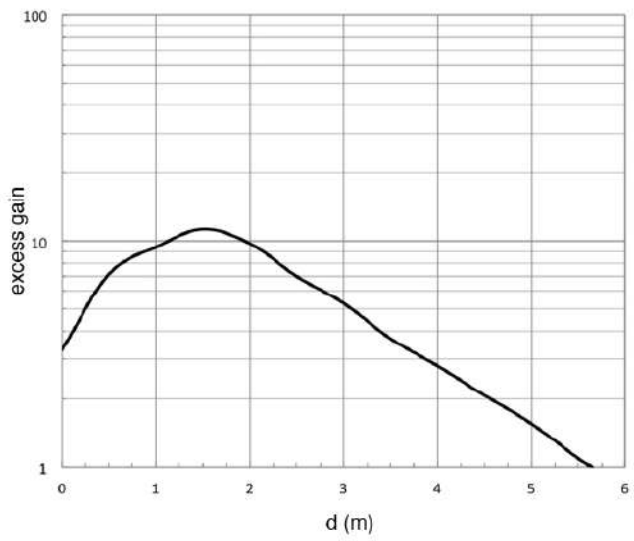
Dimensione Spot



### Parallel offset



### Excess of Earnings



---

**Datasensing S.r.l.**

Strada S.Caterina, 235

41122 Modena (MO)

Tel. 059 420411

Fax 059 253973

E-mail [info@datasensing.com](mailto:info@datasensing.com)

**date of printing**

24/05/2023 11:39:10