

FQ

FQRN/BN-0E

Photo.M18,NPN-NO+NC,M12 plug,Reflex

M18 PHOTOELECTRIC SENSORS WITH SHORT BODY

OVERVIEW

- 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

CE

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	4,5m
Thermal drift of Sr	≤10% Sr
Repeat Accuracy	5%
Sensitivity adjustment	Trimmer

Application

Function Principle	Polarized
Notes	On RL110 reflector
Optic position	Axial

Outputs

Output type	NPN 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	inversione di polarità,, sovratensioni impulsive
Emission	LED Red (660nm)
Interference to external light	5000lux (incandescent lamp), 10000lux (sunlight)

Mechanical data

Dimensions	M18 x 1 /L =66,3mm
Housing material	PBT / PC plug
Weight	20g
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

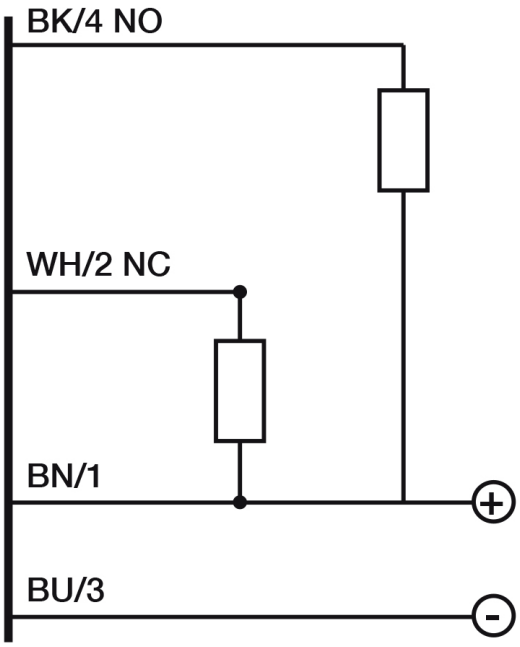
Supplied Accessories	nuts M18 x 1, screwdriver

Generical Data

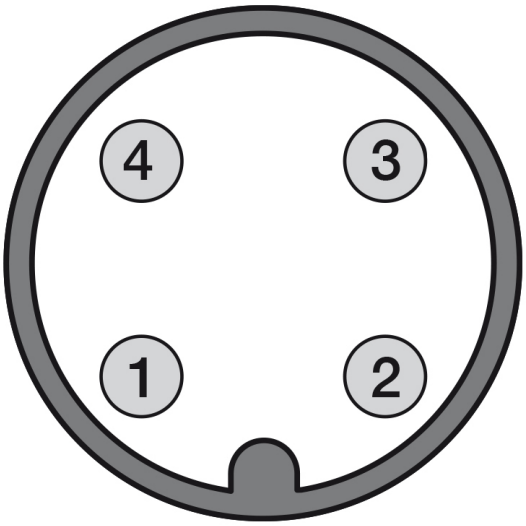
Dimensions	M18 x 1 /L =66,3mm
Operating Temperature	- 25°C…+ 70°C (Without freeze)
Mechanical Protection	IP67

CONNECTIONS

Eletrical diagram

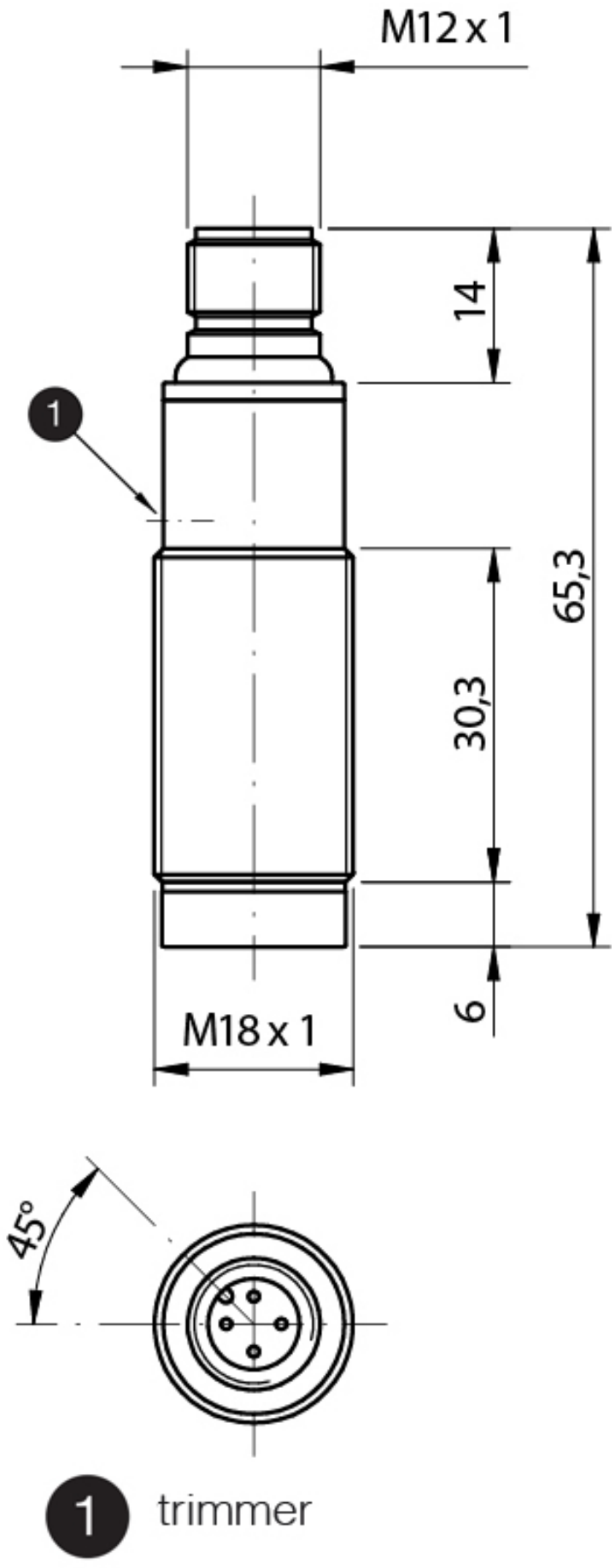


Connector

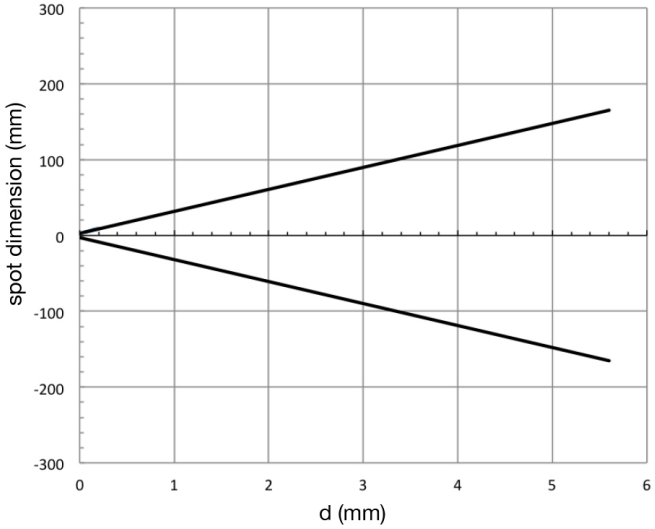


OTHERS

Dimensions



Response curves



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