

FAI7/BP-0E

cylindrical photosensors

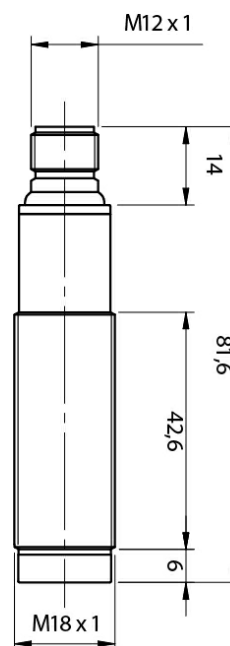


Micro Detectors

Italian Sensors Technology



Indicative image



Detection properties

Nominal sensing distance 400mm white target 90% Kodak 200x200mm

Thermal drift of Sr $\leq 10\%$ Sr

Repeat Accuracy 5%

Sensitivity adjustment Trimmer

Application

Function Principle Diffuse reflection

Optic position Axial

Outputs

Output type PNP

Output Function NO+NC

Switching frequency 250Hz

Electrical data

Operating Voltage 10-30Vdc

No-Load supply current $\leq 30\text{mA}$

Load current $\leq 100\text{mA}$

Leakage current $\leq 10\mu\text{A}$

Output voltage drop	2V max. IL =100 mA
Max ripple content	10%
LED indicators	Yellow (Lon) or output status Lo/Do
Time delay before availability	≤200ms
Short-circuit protection	Short circuit (autoreset), Overvoltage
Reverse Polarity Protection	Polarity inversal, Impulsive voltage
Emission	Infrared (880 nm)
Interference to external light	3000lux (incandescent lamp), 10000lux (sunlight)

Mechanical data

Dimensions	M18 x 1 /L =81,6mm
Weight	30g
Housing Material	PBT
Connections	M12 4pin Plug
Active Head Material	PC
Tightening torque	1Nm
Operating temperature	- 25°C...+ 70° C (Without freeze)

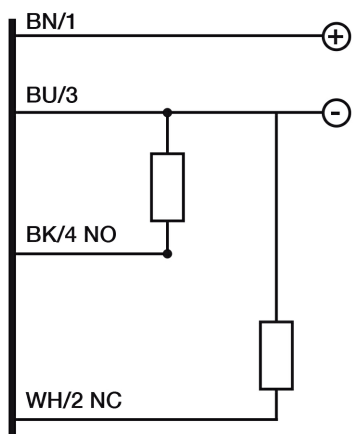
Test/Approvals

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

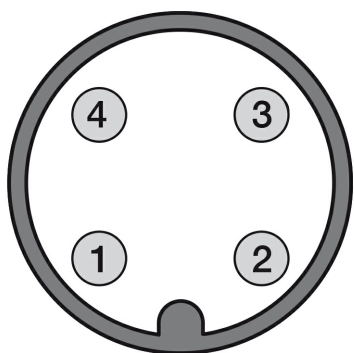
Accessories

Supplied Accessories	nuts M18 x 1, screwdriver
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ELECTRICAL DIAGRAMS OF THE CONNECTIONS

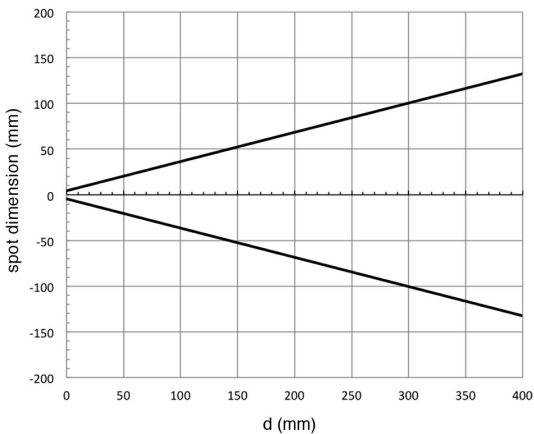


CONNECTOR

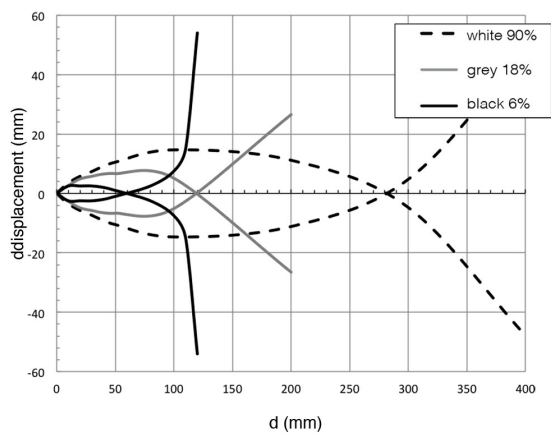


RESPONSE CURVES

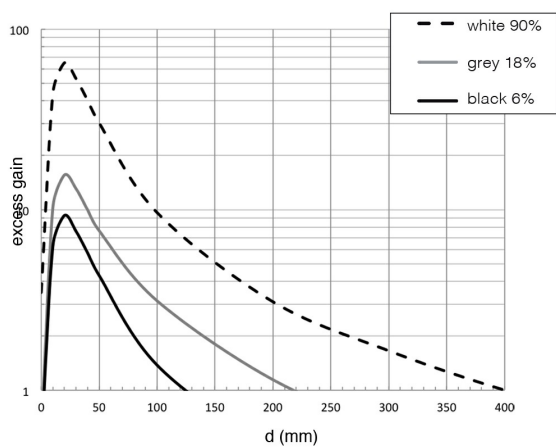
Dimensione Spot



Disassamento Parallelo



Eccesso di Guadagno



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