

FFI8/0P-1E

cylindrical photosensors

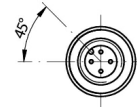
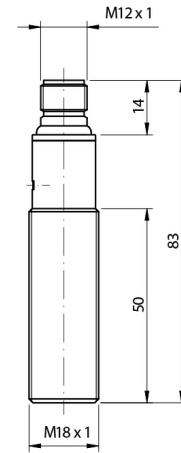


Micro Detectors

Italian Sensors Technology



Indicative image



Detection properties

Nominal sensing distance	800mm
Thermal drift of Sr	10% Sr
Repeat Accuracy	5%
Sensitivity adjustment	Teach

Application

Function Principle	Diffuse reflection (long distance, >600mm)
Notes	White target Kodak 90% reflection 400x400 mm
Optic position	Axial

Outputs

Output type	PNP
Output Function	LO/DO
Switching frequency	500Hz

Electrical data

Operating Voltage	10...30Vdc
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No-Load supply current	≤35mA (at Val=30V)
Load current	100mA
Leakage current	≤10μA
Output voltage drop	≤2V IL=100mA
Max ripple content	≤10%
LED indicators	Green: ON-teach function available; OFF-teach function blocked; fast flashing-fine teach active; slow flashing- teach in progress Yellow: output state-excess gain
Time delay before availability	200ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	Infrared (880nm)
Interference to external light	5.000lux (incandescent lamp), 10.000lux (sunlight)

Mechanical data

Dimensions	M18x1/L=83mm
Weight	60g
Housing Material	Stainless steel AISI 316L / PA12 plug
Connections	M12 plug
Active Head Material	PA12
Tightening torque	50Nm
Operating temperature	-25°C...+80°C (without freeze)
Diameter/Dimension	M18

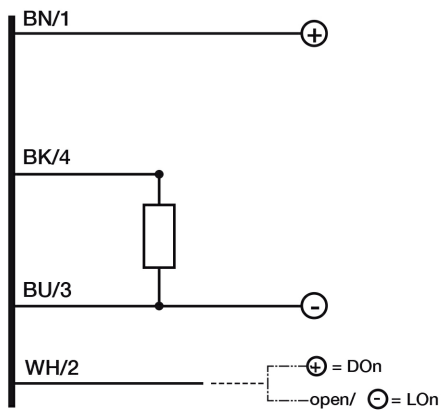
Test/Approvals

Approvals	CE, Ex, Diversey, ECOLAB, cULus
EMC compatibility	EN 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP68, IP69K

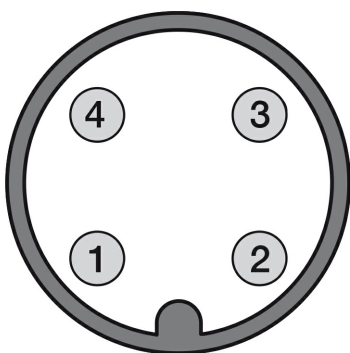
Accessories

Supplied Accessories	Metallic nut (2x)
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ELECTRICAL DIAGRAMS OF THE CONNECTIONS

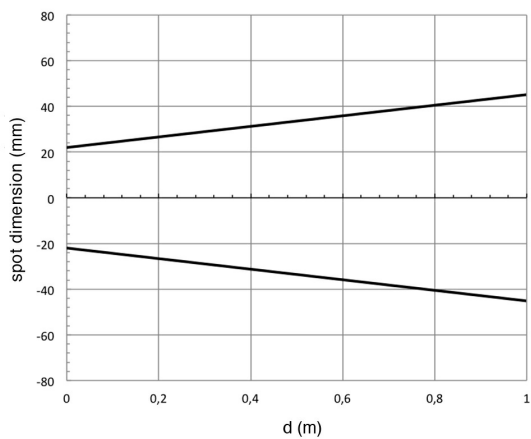


CONNECTOR

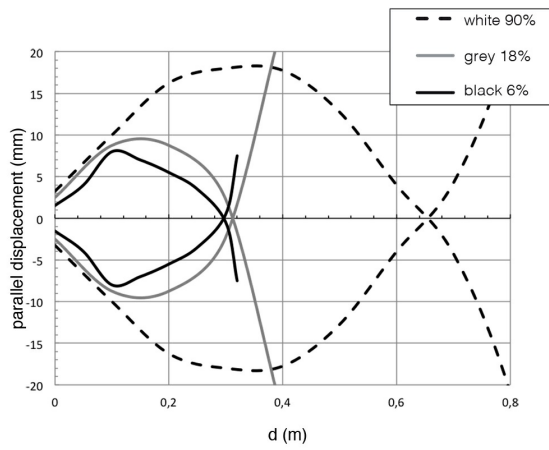


RESPONSE CURVES

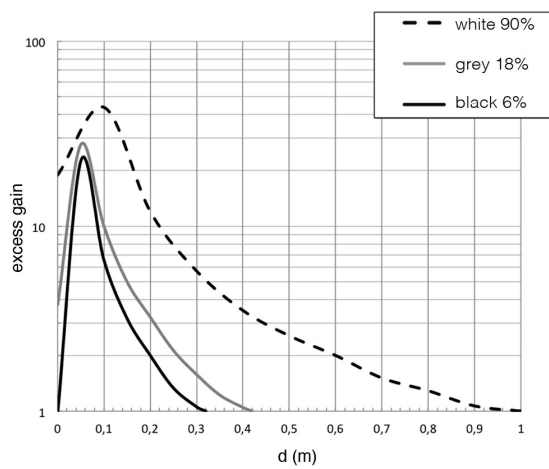
Dimensione Spot



Disassamento Parallelo



Eccesso di Guadagno



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