

PS2/AP-0E

cubic photosensors

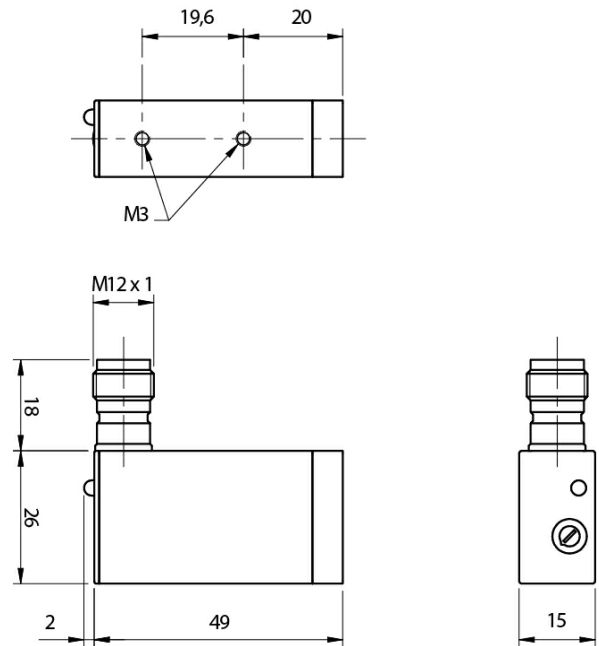


Micro Detectors

Italian Sensors Technology



Indicative image



Detection properties

Nominal sensing distance	100mm
Thermal drift of Sr	$\leq 10\% \text{ Sr}$
Repeat Accuracy	$\leq 5\%$
Sensitivity adjustment	1 turn trimmer

Application

Function Principle	Diffuse reflection (short distance, $\leq 200\text{mm}$)
Optic position	Axial

Outputs

Output type	PNP
Output Function	NO
Switching frequency	100Hz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	30mA max
Load current	$\leq 100\text{mA}$
Leakage current	$\leq 10\mu\text{A} @ V_{\text{max}}$

Output voltage drop	1,2V max
Max ripple content	≤ 10%
LED indicators	Red (output energized)
Time delay before availability	200ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	infrared (880nm)
Interference to external light	3000lux Incandescent Lamp, 10000lux

Mechanical data

Dimensions	15x49x26mm
Weight	90g
Connections	M12 plug - 90° Output
Active Head Material	PMMA
Operating temperature	- 25°C...+ 70°C (without freeze)
Material	Housing ABS; Optic PMMA
Diameter/Dimension	Cubic

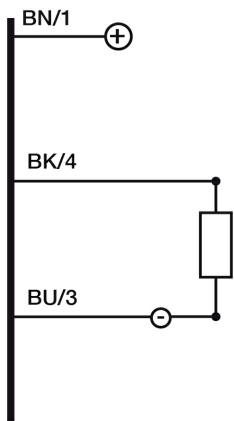
Test/Approvals

Approvals	CE
EMC compatibility	EN 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP65

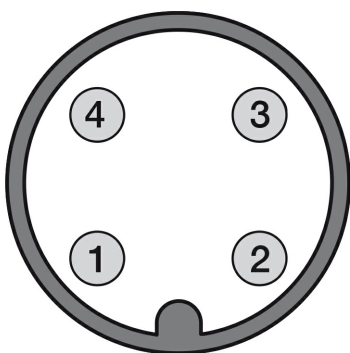
Accessories

Supplied Accessories	ST07 mounting bracket and screws
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ELECTRICAL DIAGRAMS OF THE CONNECTIONS

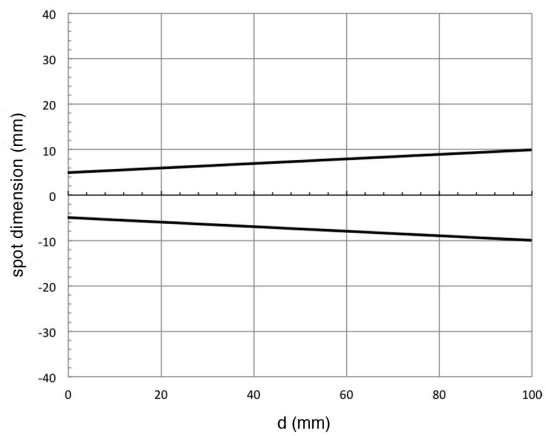


CONNECTOR

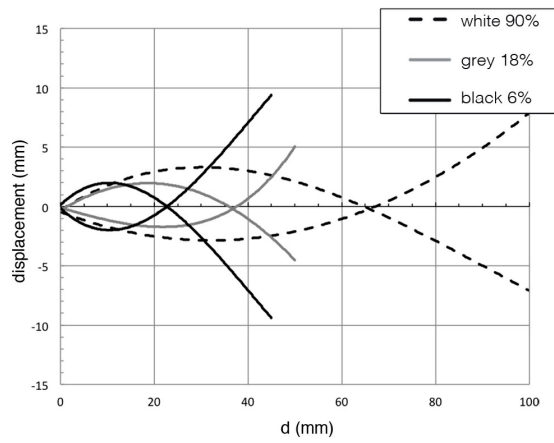


RESPONSE CURVES

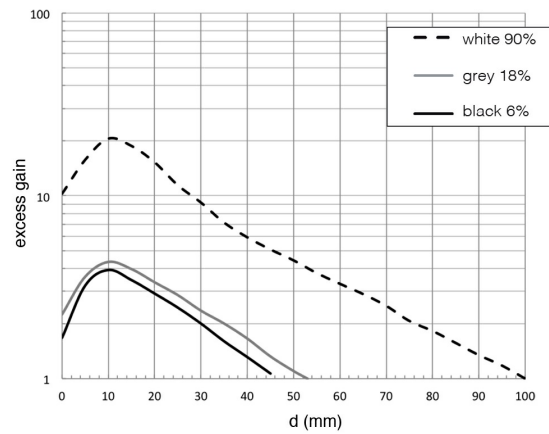
Dimensione Spot



Disassamento Parallelo



Eccesso di Guadagno



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