

DM2/0P-1A

cylindrical photosensors

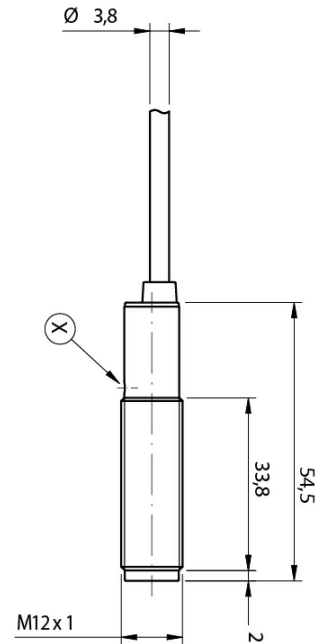


Micro Detectors

Italian Sensors Technology



Indicative image



Detection properties

Nominal sensing distance	100mm
Thermal drift of Sr	≤10% Sr
Repeat Accuracy	5%
Sensitivity adjustment	No

Application

Function Principle	Diffuse reflection (short distance, ≤200mm)
Notes	With 100x100mm white paper
Optic position	Axial

Outputs

Output type	PNP
Output Function	LO/DO

Switching frequency 400Hz

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 $\leq 2\text{V IL} = 100\text{ mA}$

Max ripple content $\leq 10\%$

LED indicators Yellow

Time delay before availability $\leq 150\text{ms}$

Short-circuit protection Yes

Reverse Polarity Protection Yes

Emission Infrared (880nm)

Interference to external light 3.000lux (incandescent lamp), 10.000lux (sunlight)

Impulsive Overvoltage Protection Yes

Mechanical data

Dimensions M12x1/L=54,5mm

Weight 60g

Housing Material Nickel plated brass / PBT cable exit

Connections 2m PVC cable

Active Head Material PMMA

Operating temperature $- 25^{\circ}\text{C}...+ 70^{\circ}\text{C}$

Diameter/Dimension M12

Test/Approvals

Approvals CE, Ex, C UL US

EMC compatibility EN 60947-5-2

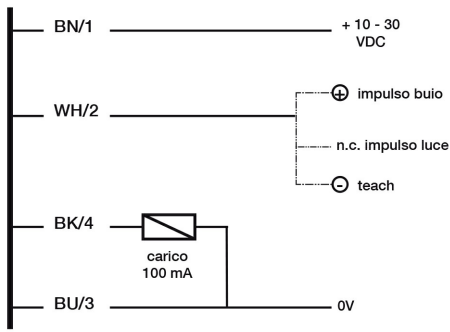
Shocks and vibrations Vibration IEC 60068-2-6 / Shock IEC 60068-2-27

Degree of protection IP67

Accessories

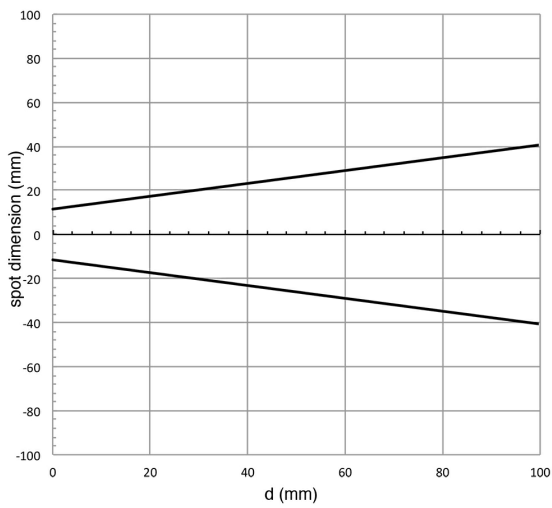
Supplied Accessories Metallic nut (x2)

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

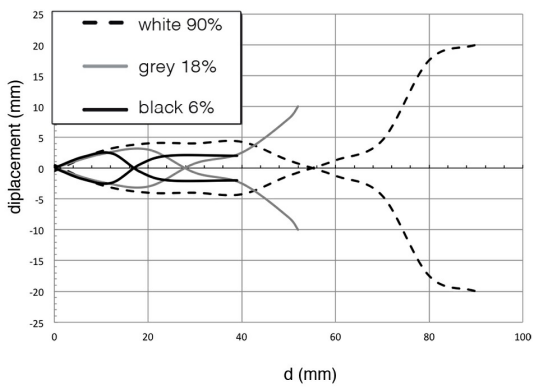


RESPONSE CURVES

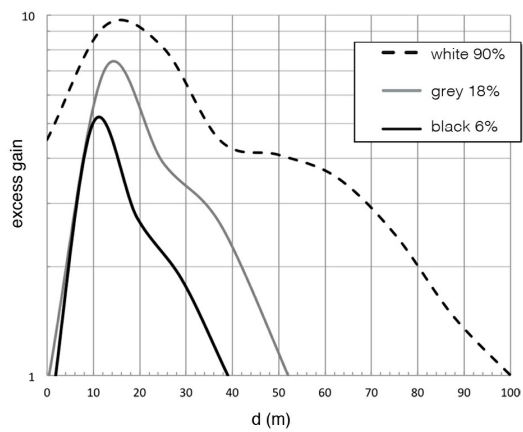
Dimensione Spot



Disassamento Parallelo



Eccesso di Guadagno



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