

DM2/0N-1H

cylindrical photosensors

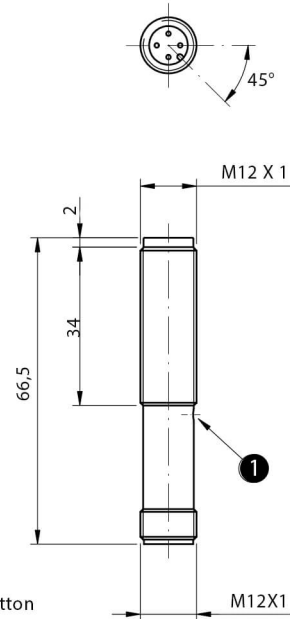


Micro Detectors

Italian Sensors Technology



Indicative image



1 Teach-in button



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	NPN
Output Function	LO/DO

Switching frequency 400Hz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤30mA
Load current	≤100mA
Leakage current	≤10μA
Output voltage drop	≤2V IL =100 mA
Max ripple content	≤ 10%
LED indicators	Yellow
Time delay before availability	≤150ms
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=65,5mm
Weight	28g
Housing Material	Nickel plated brass
Connections	M12 plug cable exit
Active Head Material	PMMA
Operating temperature	- 25°C...+ 70° C
Diameter/Dimension	M12

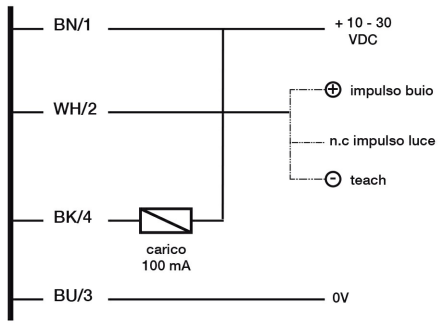
Test/Approvals

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

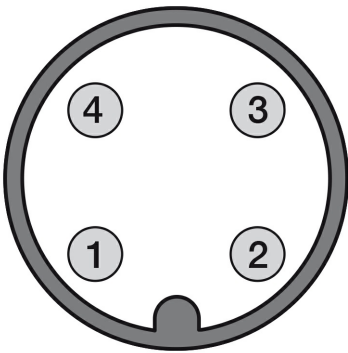
Accessories

Supplied Accessories Metallic nut (x2)

ELECTRICAL DIAGRAMS OF THE CONNECTIONS

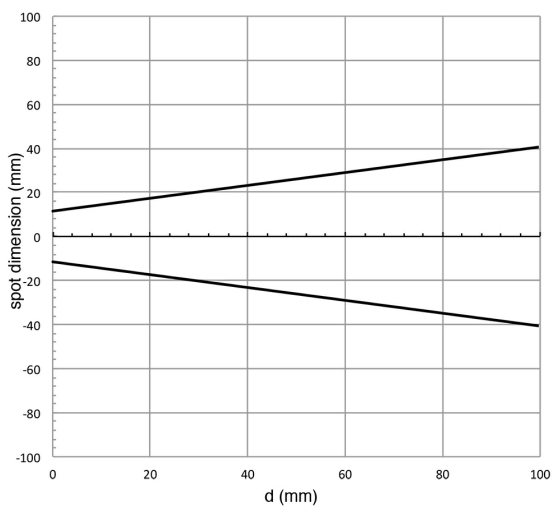


CONNECTOR

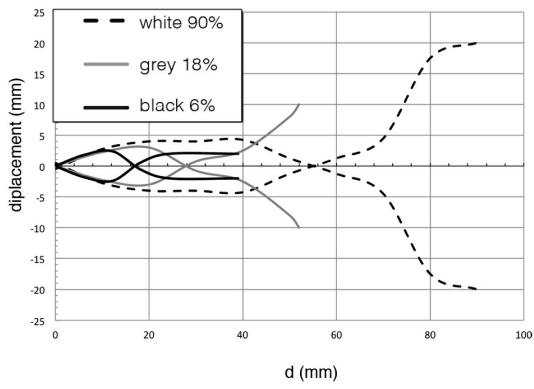


RESPONSE CURVES

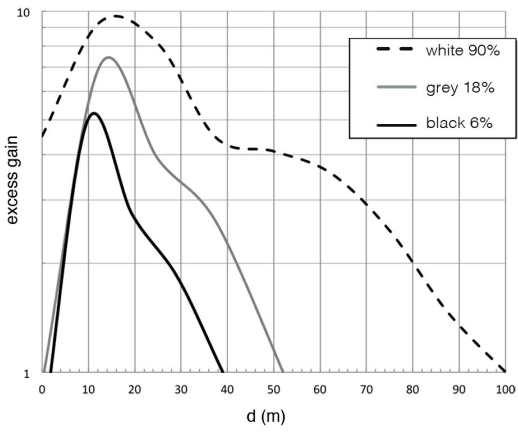
Dimensione Spot



Disassamento Parallelo



Eccesso di Guadagno



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