



DM

DM2/0N-1A

Photo.M12,NPN-NO/NC,Cable,Diffuse
M12 CYLINDRICAL PHOTOELECTRIC SENSORS

OVERVIEW

- Models diffuse reflection, polarized and through-beam
- Local and remote teach-in function
- Light-on / Dark-on selectable outputs
- IP67 protection degree
- Multifunction LED status indicator
- Complete protection against electrical damages
- Approvals: CE and cULus listed



TECHNICAL FEATURES

Detection properties

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

Application

Function Principle	Diffuse reflection (short distance, $\leq 200\text{mm}$)
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Notes	white target Kodak 90% 100 x 100mm
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Optic position	Axial
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Outputs

Output type	NPN L/D Selectable
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Output Function	L/D Selectable
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Switching frequency	400Hz
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Response time	1,25ms
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Electrical data

Operating Voltage	10...30VDC
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No-Load supply current	$\leq 30\text{mA}$
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Load current	$\leq 100\text{mA}$
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Leakage current	$\leq 10\mu\text{A}$
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Output voltage drop	$\leq 2\text{V}@I_{\text{load}}=100\text{mA}$
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Max ripple content	$\leq 10\%$
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LED indicators	Yellow (status output)
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Time delay before availability	$\leq 150\text{ms}$
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
Emission	LED Infrared (880nm)
Interference to external light	3.000lux (incandescent lamp), 10.000lux (sunlight)
Impulsive Overvoltage Protection	Yes

Mechanical data

Dimensions	M12x1/L=54,5mm
Housing material	Nickel plated brass / PBT cable exit
Weight	60g
Connections	2m PVC cable
Active Head Material	PMMA
Operating temperature	- 25°C...+ 70° C
Diameter/Dimension	M12

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

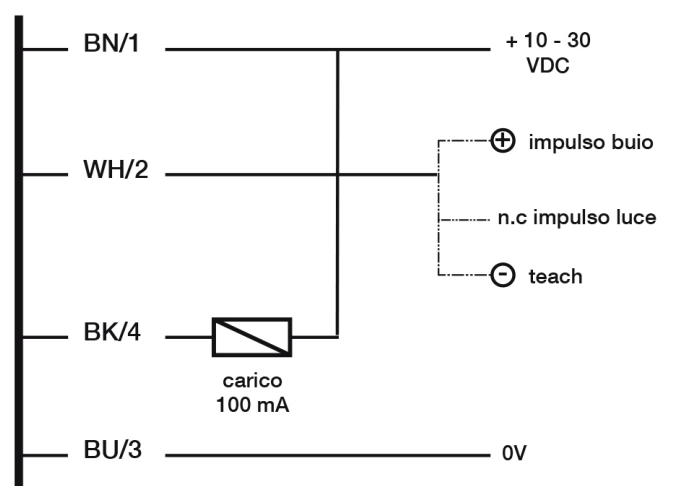
Accessories

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Supplied Accessories	nuts M12 x 1
Generical Data	
Dimensions	M12x1/L=54,5mm
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP67

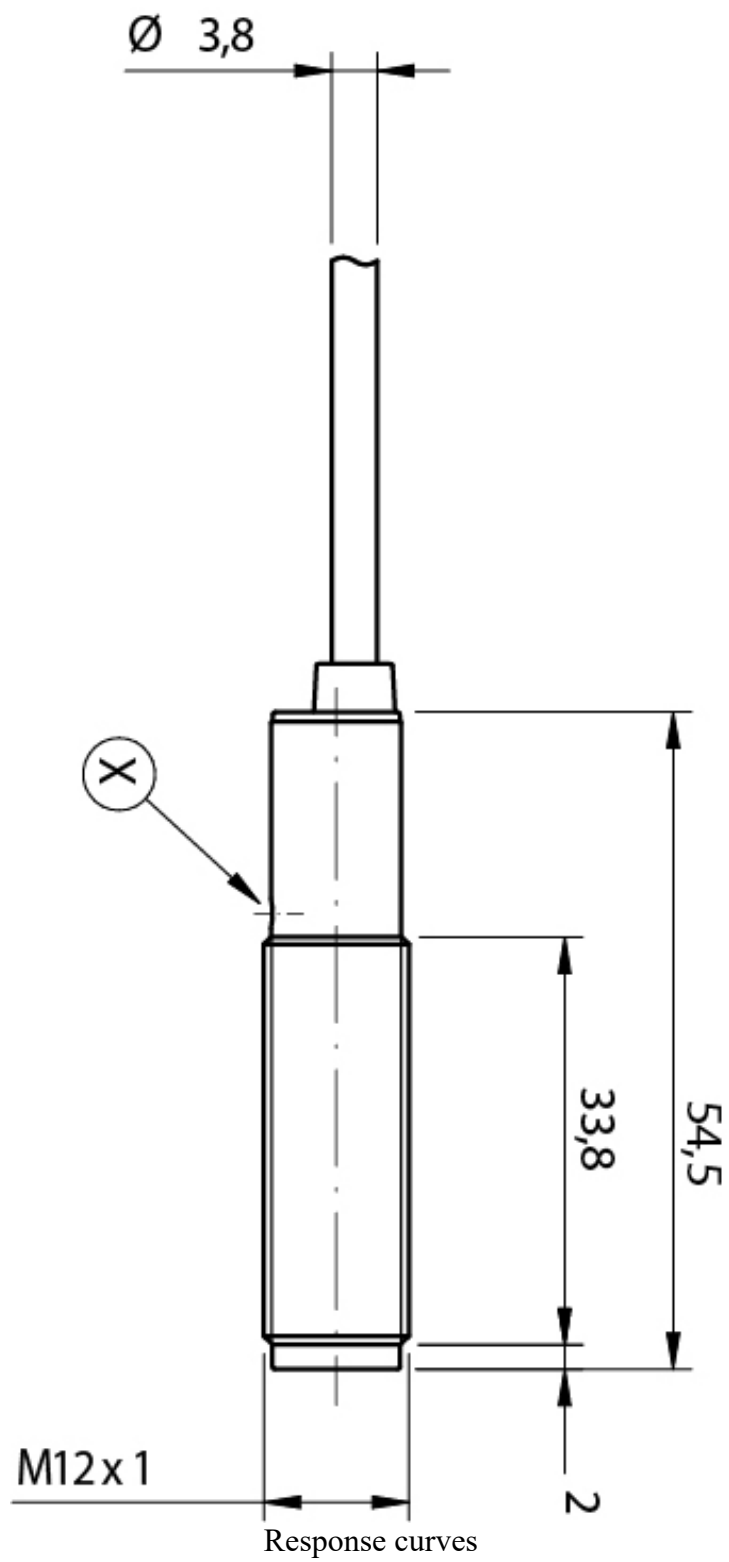
CONNECTIONS

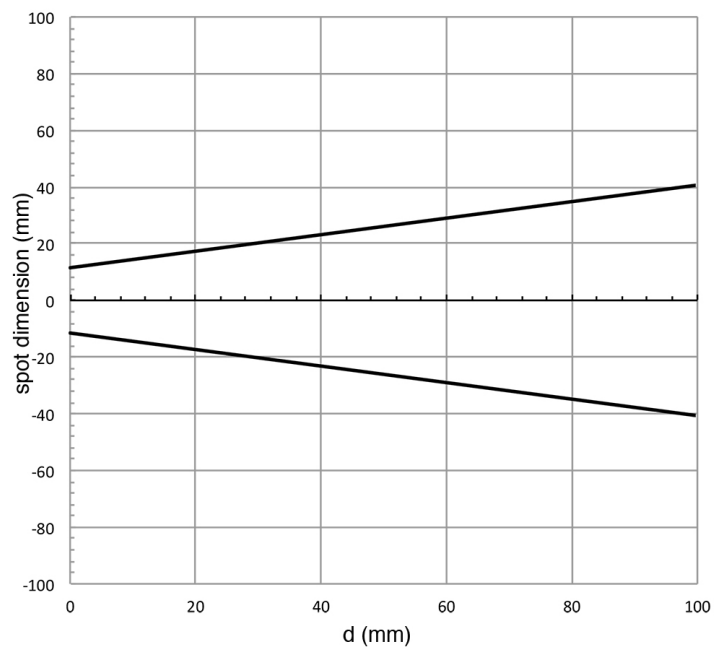
Eletrical diagram



OTHERS

Dimensions





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