MV-MQ

MV2/A0-0E

Photo.M18,AC-NO,M12 plug,Diffuse

M18 AC MULTIVOLTAGE OUTPUT PHOTOELECTRIC SENSORS

OVERVIEW

- Wide range of models: diffuse, retro-reflective, polarized, through-beam
- Through-beam models with high sensing range
- Retro-reflective models with polarized light (with visible beam)
- M12 plug cable exit in axial or right angle shape
- Low leakage current and high output current
- IP67 protection degree
- Complete protection against electrical damage

TECHNICAL FEATURES

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	white target Kodak 90% 100 x 100mm
Optic position	Axial

Outputs

Output type	TRIAC NO
Output Function	NO
Switching frequency	25Hz
Response time	20ms

Electrical data

Operating Voltage	20...253VAC/50-60Hz
No-Load supply current	≤ 30mARMS
Load current	5…300mARMS
Leakage current	6A
Output voltage drop	≤3V@Iload=300mARMS
Max ripple content	≤10%
LED indicators	Red (status output)
Time delay before availability	≤200ms
Emission	LED Infrared (880nm)

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

Mechanical data

Dimensions	M18x1/L=78,9mm
Weight	30g
Housing Material	PBT / PC plug
Connections	M12 plug
Active Head Material	PMMA
Tightening torque	1Nm
Operating temperature	- 25°C…+ 70° C (without freeze)
Diameter/Dimension	M18

Test/Approvals

Approvals	CE cURus
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	Nuts M18 x 1

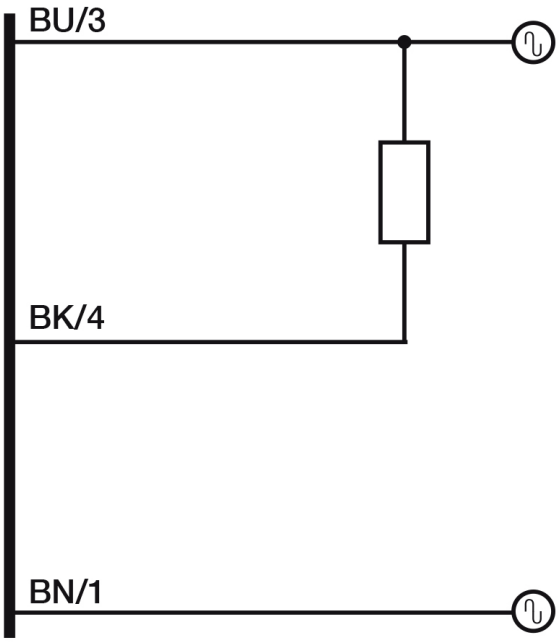
Generical Data

Dimensions	M18x1/L=78,9mm

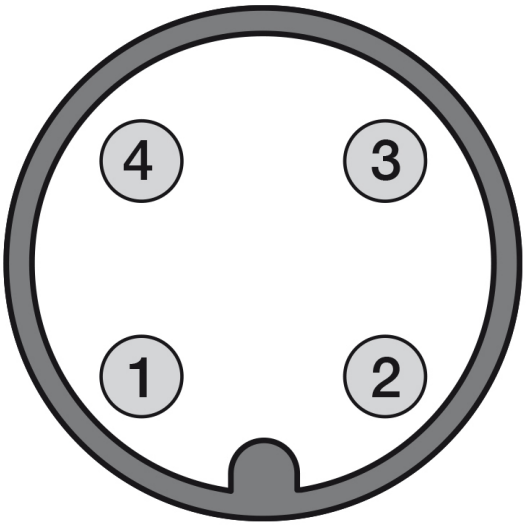
Operating Temperature	- 25°C…+ 70°C (Without freeze)
Mechanical Protection	IP67

CONNECTIONS

Eletrical diagram

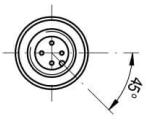


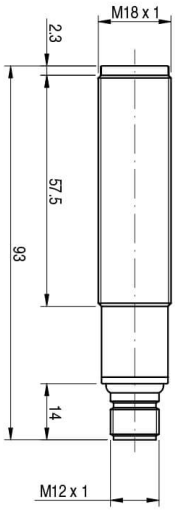
Connector



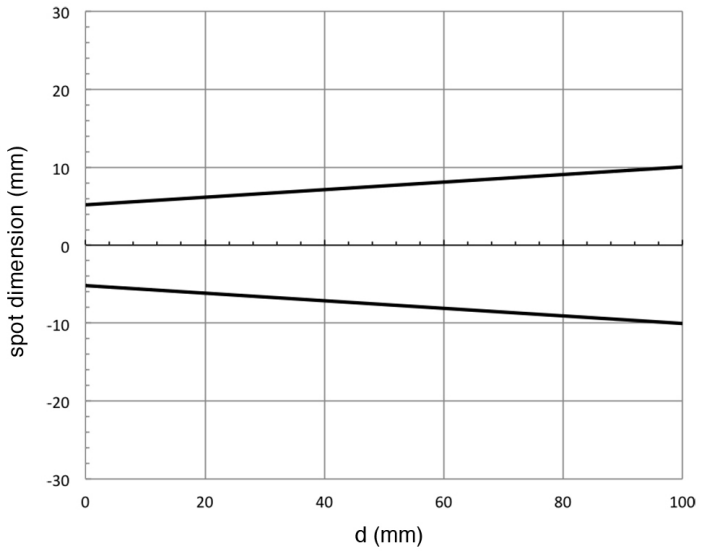
OTHERS

Dimensions





Response curves



Datasensing S.r.l.
Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

date of printing
07/05/2025
19:22:41