



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	$\leq 10\%Sr$
Repeat Accuracy	5%
Sensitivity adjustment	No

Application

Function Principle	Diffuse reflection (short distance, $\leq 200\text{mm}$)
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	$\leq 30\text{mARMS}$
Load current	5...300mARMS
Leakage current	6A
Output voltage drop	$\leq 3\text{V}@I_{\text{load}}=300\text{mARMS}$
Max ripple content	$\leq 10\%$
LED indicators	Red (status output)
Time delay before availability	$\leq 200\text{ms}$
Emission	LED Infrared (880nm)

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

Mechanical data

Dimensions	M18x1/L=78,9mm
Housing material	PBT / PC plug
Weight	30g
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

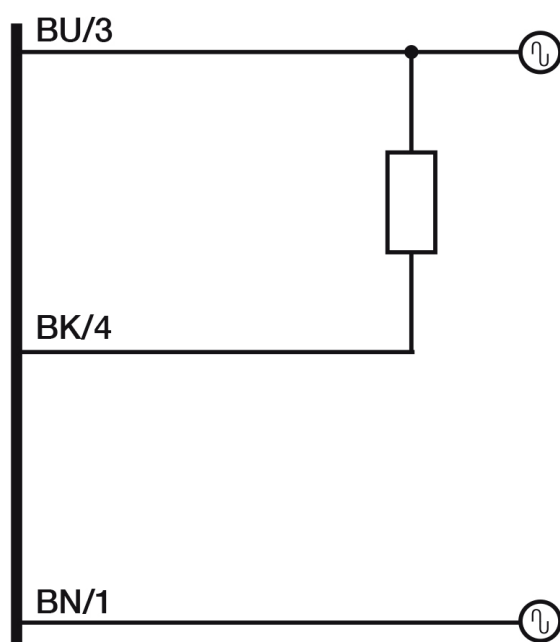
- 25°C...+ 70°C (Without freeze)

Mechanical Protection

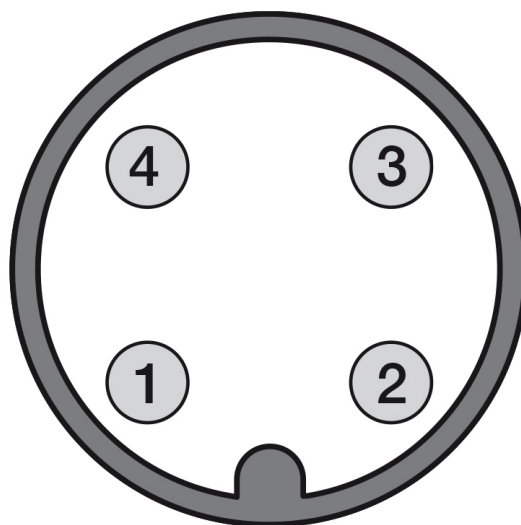
IP67

CONNECTIONS

Electrical diagram

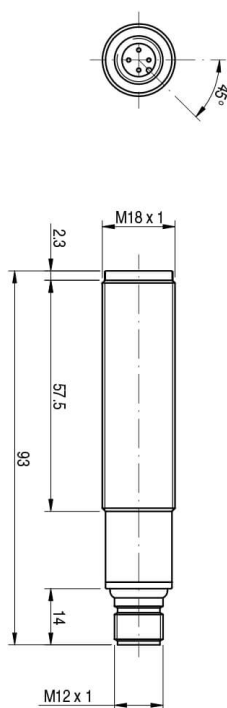


Connector

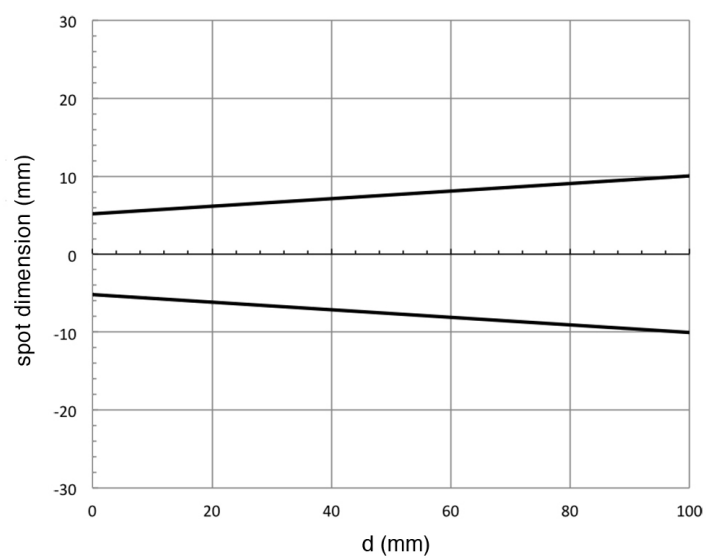


OTHERS

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**
10/08/2026
01:11:14