

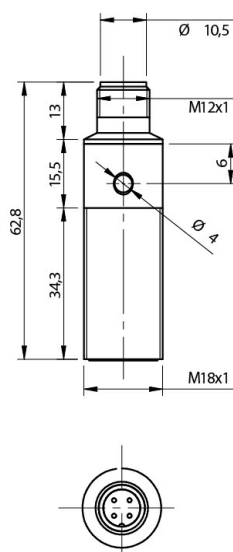


Indicative image



M12 & M18 IP67/68 CYLINDRICAL FOR HARSH ENVIRONMENTS - DC

- Innovative housing (double enclosure)
- Cutting oils resistant (for machines tool)
- Immersion proof (sealing IP 67/68)
- High frequency switching
- Complementary output (NO+NC), M12 plug cable exit
- ATEX models, cat. 3, available on request
- LED indicator visible at wide angle
- Complete protection against electrical damages



Detection properties

Nominal sensing distance	5mm
Operating distance	0...4,05mm
Standard target	18x18mm FE360
Correction Factor	copper: 0,3 / aluminium: 0,35 / brass: 0,65 / stainless steel: 0,76
Thermal drift of Sr	< 10%
Repeat Accuracy	5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Outputs

Output type	NPN
Output Function	NO + NC
Switching frequency	1,5kHz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤ 15mA
Load current	≤ 400mA
Leakage current	≤ 10μA
Output voltage drop	≤ 2V @200mA
Max ripple content	≤10%
LED indicators	Yellow LED output state
Time delay before availability	≤ 50ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes

Mechanical data

Mounting	Shielded
Dimensions	M18 x 1 / L =62,8mm
Weight	50g
Housing Material	Nickel-plated brass
Connections	M12 Plug
Active Head Material	PSU
Tightening torque	50Nm
Operating temperature	-25°C...+70°C
Diameter/Dimension	M18

Test/Approvals

Approvals	CE
EMC compatibility	IEC 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP67, IP68

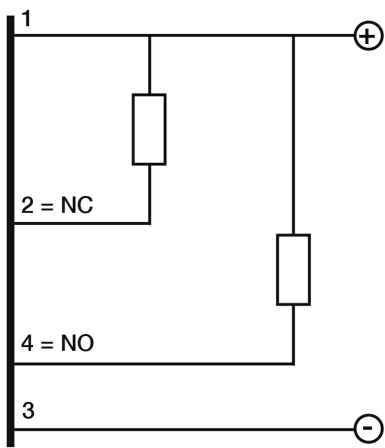
Accessories

Supplied Accessories	2 nuts M18x1
----------------------	--------------

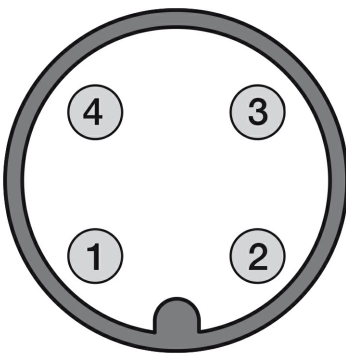
Generical Data

Dimensions	M18 x 1 / L =62,8mm
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67, IP68

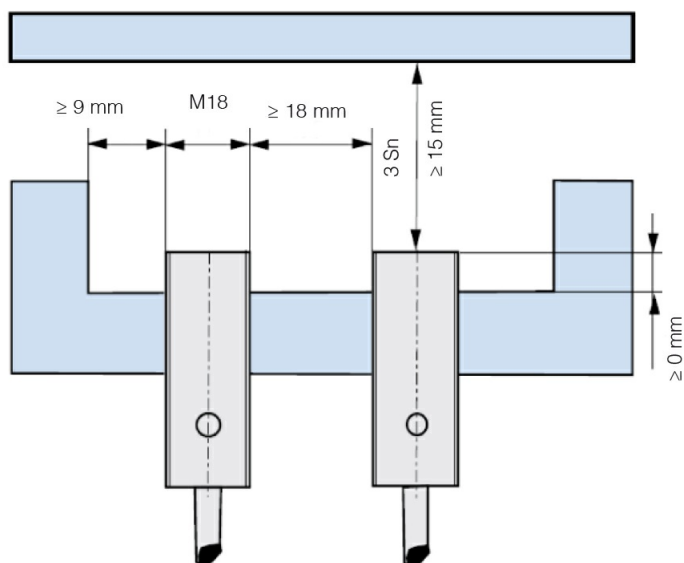
ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR

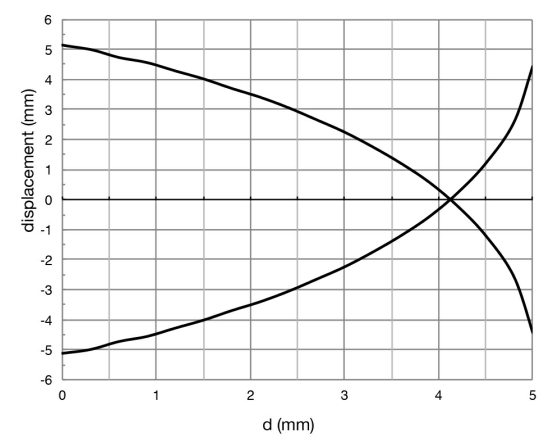


INSTALLATION



RESPONSE CURVES

Parallel offset



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

29/04/2022 08:25:22