

PMS-PKS/PMW-PKW

PMS/0P-1H

Ind.M12,PNP-NO+NC,M12 plug,Sch-STD

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

OVERVIEW

- 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

CE

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	2mm
Operanting distance	0…1,62mm
Standard target	12x12mm FE360
Correction Factor	copper: 0,22 / aluminium: 0,31 / brass: 0,41 / stainless steel: 0,77

Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 … 20%

Application

Description	M12 standard flush mount
Functions	Proximity

Outputs

Output type	PNP
Output Function	NO + NC
Switching frequency	2kHz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤ 15mA
Load current	≤ 100mA
Leakage current	≤ 10μA
Output voltage drop	≤ 2V @100mA
Max ripple content	≤ 10%
LED indicators	Yellow LED output state
Time delay before availability	≤ 50ms

Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes

Mechanical data

Dimensions	M12 x 1 / L =64,6mm
Mounting	Shielded
Material	Nickel-plated brass
Housing material	Nickel-plated brass
Weight	30g
Connections	M12 Plug
Active Head Material	PPS
Tightening torque	10Nm
Operating temperature	-25°C…+70°C
Diameter/Dimension	M12

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

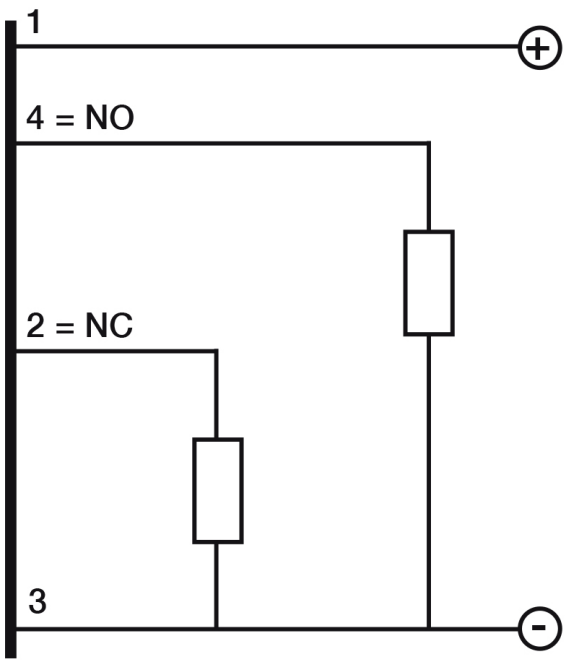
Supplied Accessories	2 nuts M12x1

Generical Data

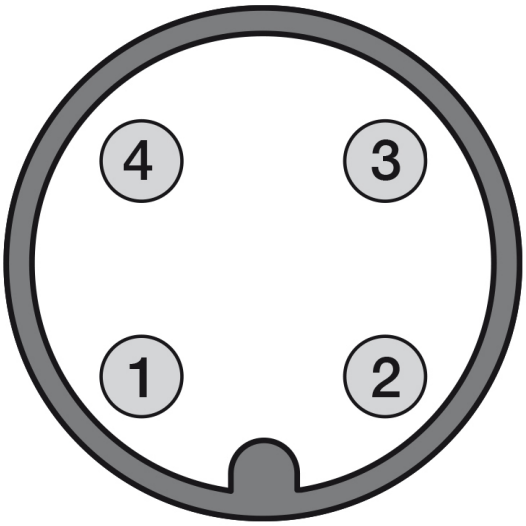
Dimensions	M12 x 1 / L =64,6mm
Operating Temperature	-25°C…+70°C
Mechanical Protection	IP67

CONNECTIONS

Eletrical diagram

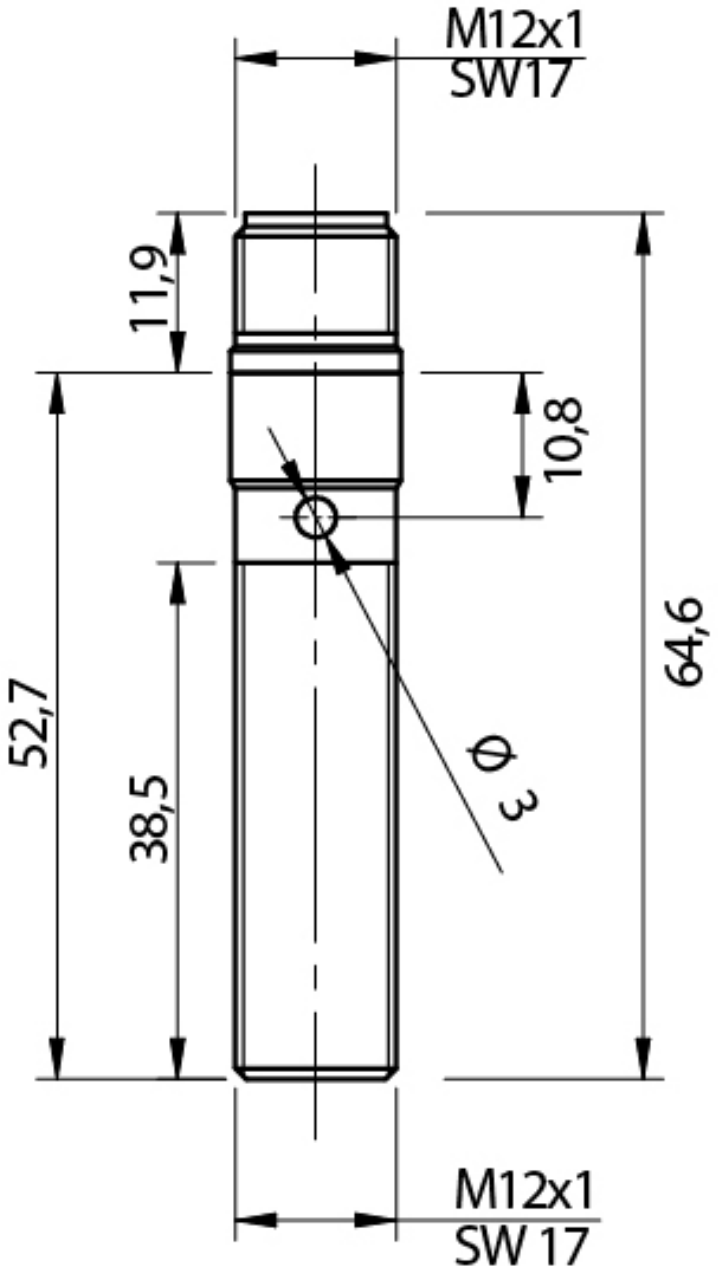


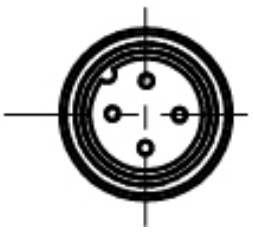
Connector



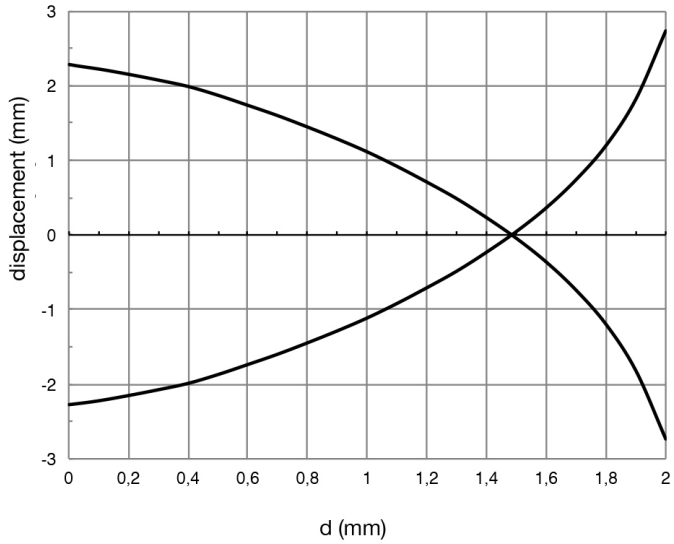
OTHERS

Dimensions

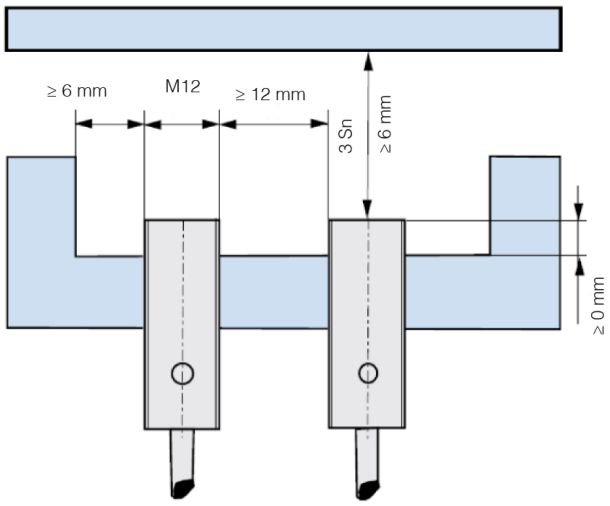




Response curves



Installation



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
04/11/2026
10:53:55