



V3

V3M1/R0-4Q

Ind.M12,AC/DC-NO,1/2"-20UNF,Nsch-LD
"M8, M12, M18, M30 INDUCTIVE WITH AC/DC SUPPLY VOLTAGE"

OVERVIEW



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	6mm
Operanting distance	0...4,8mm
Standard target	18x18mm FE360
Correction Factor	copper: 0,49 / aluminium: 0,54 / brass: 0,58 / stainless steel: 0,79
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Application	
Description	M12 standard no-flush mount
Functions	Proximity
Outputs	
Output type	MOSFET
Output Function	NO (Vac) - NO/NC (Vdc)
Switching frequency	25Hz (AC) - 500Hz (DC)
Electrical data	
Operating Voltage	20...250Vac/50...60Hz...20...250Vdc
Load current	5...140ma(Vac) - 5...200mA (Vdc)
Leakage current	≤ 1mA (Vac) - ≤ 0,7mA (Vdc)
Output voltage drop	≤ 7,5V (Vac) - ≤ 8V (Vdc)
Max ripple content	≤ 10%
LED indicators	Yellow LED output state
Time delay before availability	≤100ms
Short-circuit protection	Yes
Impulsive Overvoltage Protection	Yes
Inrush current	600mA/150ms (AC/DC)

0,1µF @Vmax - 1µF @Vmin

1µF @Vmax - 1µF @Vmin

Mechanical data

Dimensions

M12 x 1 / L = 65mm

Mounting

Unshielded

Material

Nickel-plated brass

Housing material

Nickel-plated brass

Weight

20g

Connections

½" - 20UNF plug

Active Head Material

PA4T

Tightening torque

6Nm

Operating temperature

-25°C...+70°C

Diameter/Dimension

M12

Test/Approvals

Approvals

CE cULus

EMC compatibility

IEC 60947-5-2

Shocks and vibrations

Vibration IEC 60068-2-6 / Shock IEC 60068-2-27

Degree of protection

IP67

Accessories

Supplied Accessories

2 nuts M12x1

Generical Data

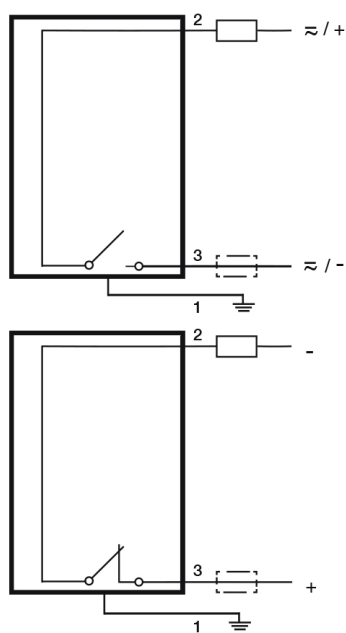
Dimensions M12 x 1 / L = 65mm

Operating Temperature -25°C...+70°C

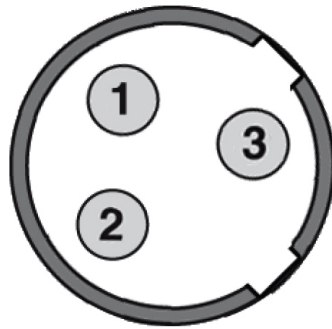
Mechanical Protection IP67

CONNECTIONS

Eletrical diagram

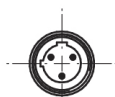
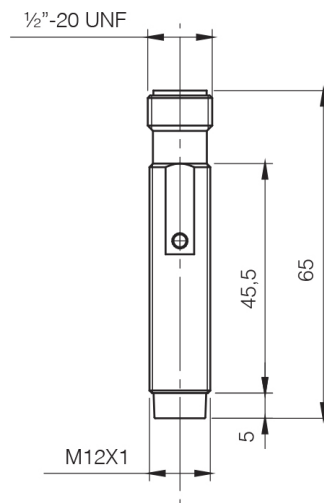


Connector

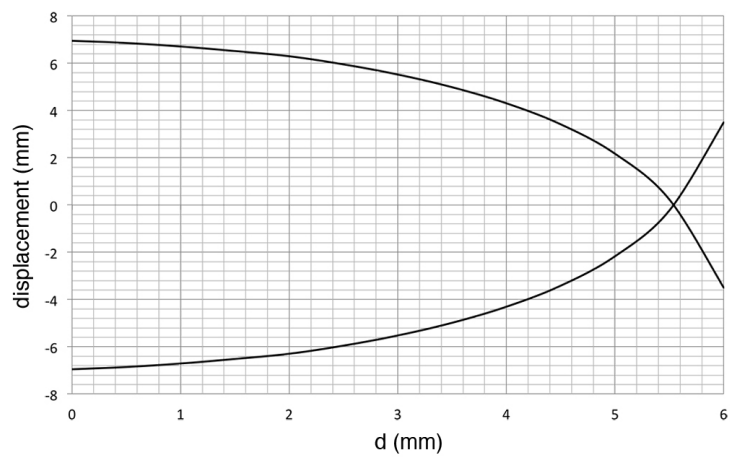


OTHERS

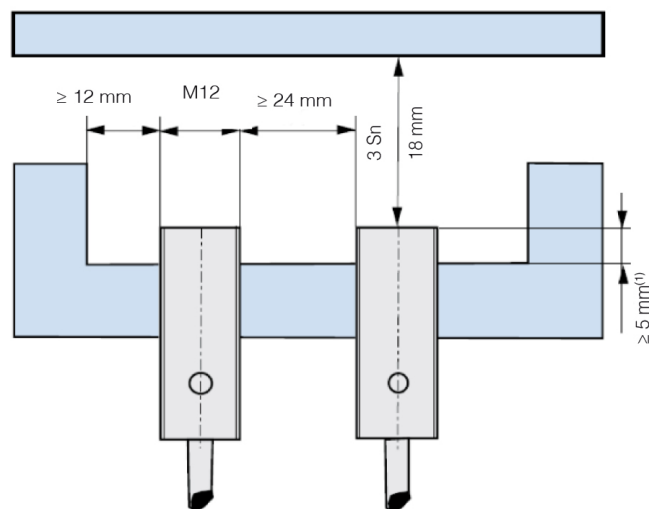
Dimensions



Response curves



Installation



⁽¹⁾ $\geq 6,5$ mm for magnetic materials

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
07:32:34