

The background of the entire page is a composite image. The top half shows a city skyline at night with several tall buildings and a river. The bottom half shows a highway interchange with light trails from cars. Overlaid on both images are several white, glowing arcs that connect different points, suggesting a network or data flow.

FMM6/CN-3H

DATASHEET

Sensor Partners BV

📍 James Wattlaan 15
5151 DP Drunen
The Netherlands

☎ +31 (0)416 - 37 82 39

✉ info@sensorpartners.com

🌐 sensorpartners.com

Sensor Partners BVBA

📍 Z.1 Researchpark 310
B-1731, Zellik
Belgium

☎ +32 (0)2 - 464 96 90

✉ info@sensorpartners.com

🌐 sensorpartners.com

FMM6/CN-3H

cylindrical full metal inductive



Indicative image



Detection properties

Nominal sensing distance	3mm
Operanting distance	0...2,43mm
Standard target	12x12mm FE360
Correction Factor	Kupfer: 0 / Aluminium: 0 / Messing: 0,1 / rostfreier Edelstahl: 0,53
Thermal drift of Sr	< 10%
Repeat Accuracy	5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Outputs

Output type	NPN
Output Function	NC
Switching frequency	200Hz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤ 10mA
Load current	≤ 200mA
Leakage current	≤ 10μA
Output voltage drop	≤ 1,5V @200mA
Max ripple content	≤10%
LED indicators	Yellow LED output state
Time delay before availability	≤ 50ms
Short-circuit protection	Yes (auto-reset)
Reverse Polarity Protection	Yes
Protection against inductive loads	Yes

Mechanical data

Mounting	Shielded
Dimensions	M12 x 1 / L = 52mm
Weight	20g
Housing Material	stainless steel AISI316L
Connections	M12 Plug
Active Head Material	stainless steel AISI316L
Tightening torque	10Nm
Operating temperature	-25°C...+70°C
0,25mm	0,50mm
Diameter/Dimension	M12

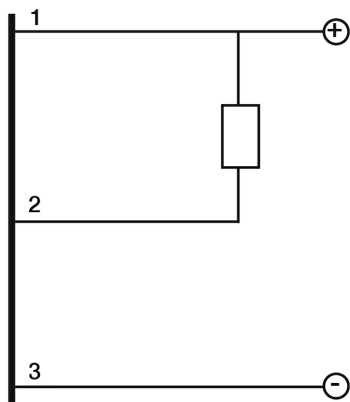
Test/Approvals

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	IP68, IP69K
IK05	IK05
80bar	80bar

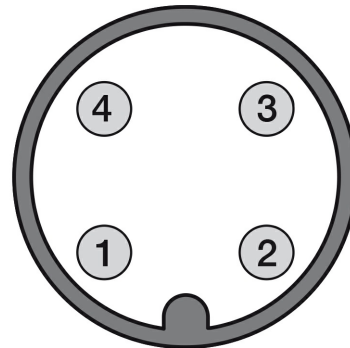
Accessories

Supplied Accessories	2 nuts M12x1
----------------------	--------------

Electrical diagrams of the connections



Connector



Response Curves

