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 numerous white, glowing arcs that connect various points, suggesting a network or data flow.

# FMT6/BP-3H

## DATASHEET

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# FMT6/BP-3H

cylindrical full metal inductive



Indicative image



## Detection properties

Nominal sensing distance	10mm
Operanting distance	0...8,1mm
Standard target	30x30mm FE360
Correction Factor	Kupfer: 0 / Aluminium: 0 / Messing: 0,1 / rostfreier Edelstahl: 0,67
Thermal drift of Sr	< 10%
Repeat Accuracy	5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

## Outputs

Output type	PNP
Output Function	NO + NC
Switching frequency	80Hz

## 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	M30 x 1,5 / L = 60mm
Weight	150g
Housing Material	stainless steel AISI316L
Connections	M12 Plug
Active Head Material	stainless steel AISI316L
Tightening torque	50Nm
Operating temperature	-25°C...+70°C
0,25mm	1mm
Diameter/Dimension	M30

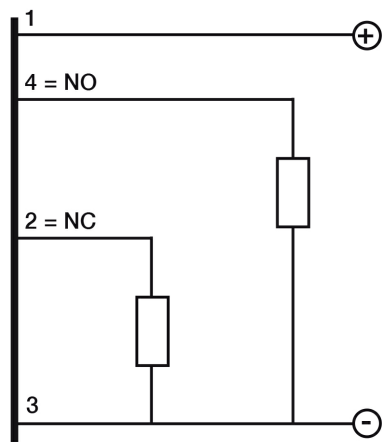
## Test/Approvals

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	IK10
80bar	80bar

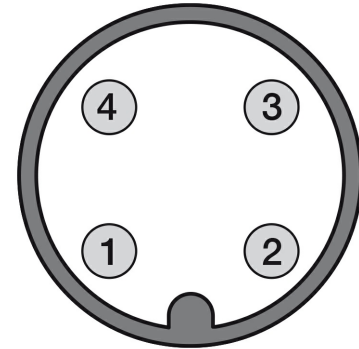
## Accessories

Supplied Accessories	2 nuts M30x1,5
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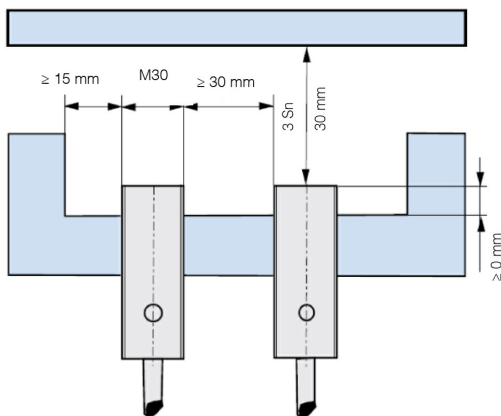
## Electrical diagrams of the connections



## Connector



## Installation



## Response Curves

