

# IR18.P12S-F45.NO1Z.7BO

Inductive proximity switch - large sensing distance

Article number: 11148847

## Overview

- 12 mm
- NPN make function (NO)
- connector M12
- -25 ... 75 °C
- IP 67



Picture similar



## Technical data

### General data

Mounting type	Flush
Special type	Enhanced distance (GammaProx)
Nominal sensing distance S <sub>n</sub>	12 mm
Temperature drift	± 10 %
Hysteresis	3 ... 20 % of S <sub>r</sub>
Output indicator	3 port LED red
Correction factor typ.	Mild steel 100 %, stainless steel 70 %, aluminum 40 %

### Electrical data

Switching frequency	400 Hz
Voltage supply range +V <sub>s</sub>	6 ... 36 VDC
Current consumption max. (no load)	10 mA
Output circuit	NPN make function (NO)

### Electrical data

Voltage drop V <sub>d</sub>	< 2 VDC
Output current	< 100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

### Mechanical data

Type	Cylindrical threaded
Material (sensing face)	PBT
Housing material	Brass nickel plated
Dimension	18 mm
Housing length	45 mm
Connection types	Connector M12
Tightening torque max.	40 Nm

### Ambient conditions

Operating temperature	-25 ... +75 °C
Protection class	IP 67

## Remarks

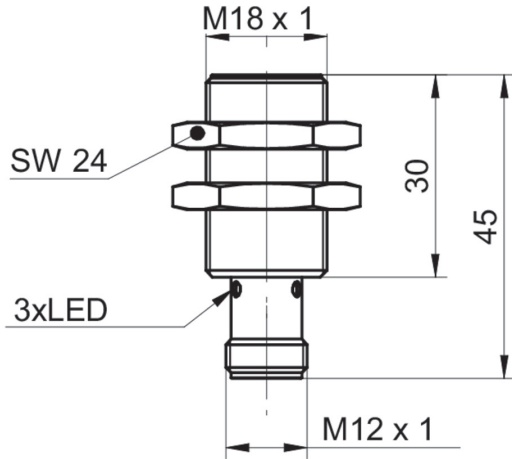
- Increased sensing distance

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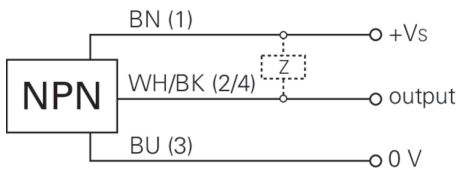
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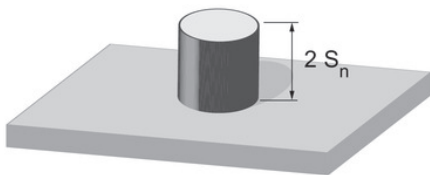
## Dimension drawing



## Connection diagram



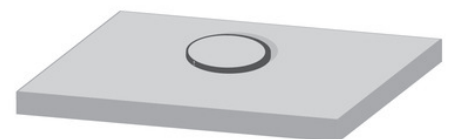
## Correction factors for different mounting situation (approx.)



Mounting material	Correction factor
Mild steel	100 %
Stainless steel	100 %
Aluminum	100 %



Mounting material	Correction factor
Mild steel	105 %
Stainless steel	95 %
Aluminum	95 %



Mounting material	Correction factor
Mild steel	not possible
Stainless steel	110 %
Aluminum	65 %

**Mounting instructions**

