



**Inductive proximity sensors**

**Inductive sensors** are used to sense metal objects and can be utilised in very difficult applications, even in the presence of oils, powders, liquids and vibrations. They are commonly mounted on machine tools, textile machines, transport systems, packaging machines and all automation applications.

- LED indication: Incorporated
- Supply protection: Polarity reversal, short circuit, power surge
- Ambient limits: -25 ... +70°C
- Housing material: Nickel-plated brass; PBT sensing surface

type	supply voltage	flush	non-flush	sensing distance (mm)	PNP	NPN	NO	NC	body length / thread (mm)
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**Inductive proximity sensors** *longer detection range with same dimensions*

- Standard sensors for detecting ferrous metals
- Supplied standard with cable connection

**M12 cylindrical housing**

*with 2 meter cable connection*

<b>IS-E1204-BPOB2</b>	12 - 24 VDC	•		4 mm	•		•		54
<b>IS-E1204-BPCB2</b>	12 - 24 VDC	•		4 mm				•	54
<b>IS-N1208-BPOB2</b>	12 - 24 VDC		•	8 mm	•		•		53
<b>IS-N1208-BPCB2</b>	12 - 24 VDC		•	8 mm	•			•	53

**M18 cylindrical housing**

*with 2 meter cable connection*

<b>IS-E1808-BPOB2</b>	12 - 24 VDC	•		8 mm	•		•		60
<b>IS-E1808-BPCB2</b>	12 - 24 VDC	•		8 mm				•	60
<b>IS-N1812-BPOB2</b>	12 - 24 VDC		•	12 mm	•		•		60
<b>IS-N1812-BPCB2</b>	12 - 24 VDC		•	12 mm	•			•	60

For NPN version change "BP" in part number to "BN"

**Photoelectric sensors** *IP67 (EN60529) (retro-reflective models include reflector)*

Photo sensors transmit a beam which is reflected back from a detected object (*diffused*) or from a reflector (*retro-reflective*), or with a separate transmitter and receiver (*through beam*) typically used for longer distance sensing.

- Supply protection: Polarity reversal, impulse, over current, short circuit
- LED indication: Orange (*output status*) / green (*supply present*)

type	supply voltage	diffused	retro-reflective	through-beam	sensing distance (mm)	PNP	NPN	light-on	dark-on	connector
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**PS-F series - Flat sensor**

*fixed sensitivity*

*30 x 16 x 6.8 mm*

<b>PS-FR2-PLB2</b>	12 - 24 VDC	•			5...50 mm	•		•		cable
<b>PS-FR2-PDB2</b>	12 - 24 VDC	•			5...50 mm				•	cable
<b>PS-FL3-PLB2</b>	12 - 24 VDC		•		1000 mm	•		•		cable
<b>PS-FL3-PDB2</b>	12 - 24 VDC		•		1000 mm	•			•	cable

For NPN version change "PL/PD" in part number to "NL/ND"

**PS-L series - Lateral sensor**

*IP67 (EN60529)*

*28 x 14 x 7.7 mm*

- Output type: Push-Pull
- Light-ON/Dark-ON: Selectable (*switched by white wire*)

<b>PS-LR2-USB2</b>	12 - 24 VDC	•			5...50 mm	•	•	•	•	cable
<b>PS-LL3-USB2</b>	12 - 24 VDC		•		1000 mm	•	•	•	•	cable

**PS-R series - Rectangular sensor**

*IP67 (EN60529)*

*31 x 21 x 11.2 mm*

- Sensitivity: Adjustable (potentiometer)
- Output type: Push-Pull
- Light-ON/Dark-ON: Selectable
- Mounting: Supplied complete with metallic mounting bracket

<b>PS-RR3-PS12</b>	12 - 24 VDC	•			300 mm	•	•	•	•	cable
<b>PS-RR9-PS12</b>	12 - 24 VDC	•			1000 mm	•	•	•	•	cable
<b>PS-RL4-PS12</b>	12 - 24 VDC		•		4.2 meters	•	•	•	•	cable
<b>PS-RT9-PS12</b>	12 - 24 VDC			•	12 meters	•	•	•	•	cable

**PS-M series - Cylindrical photoelectric sensor**

*(with teach button)*

*M18 Ø x 51 mm*

<b>PS-MR3-US22</b>	12 - 24 VDC	•			300 mm	•	•	•	•	cable
<b>PS-MR9-US22</b>	12 - 24 VDC	•			1000 mm	•	•	•	•	cable
<b>PS-ML4-US22</b>	12 - 24 VDC		•		4.2 meters	•	•	•	•	cable