

**new**



PS-FR2-NDB2



PS-RL4-NS12



IS-E1204-BPOB2



IS-E1204-BPCB2



IS-E1808-BPOB2



IS-E1812-BPCB2

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

**Photoelectric sensors**

- Ambient limits: -25 - +55°C
- Supply protection: Polarity reversal, impulse overvoltage, over current, short circuit

type	supply voltage	diffused	retro-reflective	through-beam	Max. sensing distance (mm)	PNP	NPN	light-on	dark-on	connector
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**PSF series flat sensor** IP67 (EN60529) 30 x 16 x 6.8 mm

- Sensitivity: Fixed

**Diffuse reflective** proximity type detection (*no transmitter or reflector required*)

<b>PS-FR2-PLB2</b>	12 - 24 VDC	•			5 - 50	•			•	cable
<b>PS-FR2-NLB2</b>	12 - 24 VDC	•			5 - 50		•		•	cable
<b>PS-FR2-PDB2</b>	12 - 24 VDC	•			5 - 50	•		•		cable
<b>PS-FR2-NDB2</b>	12 - 24 VDC	•			5 - 50		•	•		cable

**Retro-reflective** used together with a reflector (*supplied with sensor*)

<b>PS-FL3-PLB2</b>	12 - 24 VDC	•			1000	•			•	cable
<b>PS-FL3-NLB2</b>	12 - 24 VDC	•			1000		•		•	cable
<b>PS-FL3-PDB2</b>	12 - 24 VDC	•			1000	•		•		cable
<b>PS-FL3-NDB2</b>	12 - 24 VDC	•			1000		•	•		cable

**PS-R series rectangular sensor** IP67 (EN60529) 32.8 x 21.1 x 11.2 mm

- Sensitivity: Adjustable (*one-turn potentiometer*)
- Light-ON/Dark-ON: Selectable (*rotary selector*)
- Mounting: Supplied complete with metallic mounting bracket

**Diffuse reflective** proximity type detection (*no transmitter or reflector required*)

<b>PS-RR3-PS12</b>	12 - 24 VDC	•			300	•			•	cable
<b>PS-RR3-NS12</b>	12 - 24 VDC	•			300		•		•	cable

**Retro-reflective** used together with a reflector (*supplied with sensor*)

<b>PS-RL4-PS12*</b>	12 - 24 VDC	•			4.2 met	•			•	cable
<b>PS-RL4-NS12*</b>	12 - 24 VDC	•			4.2 met		•		•	cable

**Through beam** transmitter and receiver kit

<b>PS-RT9-PS12</b>	12 - 24 VDC			•	12 met	•			•	cable
<b>PS-RT9-NS12</b>	12 - 24 VDC			•	12 met		•		•	cable

\* Supplied complete with reflector 53 x 53/63 mm

**Inductive proximity sensor** IP67 (EN60529)

- Ambient limits: -25 - +70°C
- Supply protection: Polarity reversal, short circuit
- Housing material: Nickel-plated brass; PBT sens surface

- Standard sensors for detecting ferrous metals
- Longer detection range with same dimensions
- Supplied standard with cable connection

type	supply voltage	flush	non-flush	sensing distance (mm)	PNP	NPN	NO	NC	body length / thread (mm)
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**M12 cylindrical housing** with 2 meter cable connection

<b>IS-E1204-BPOB2</b>	12 - 24 VDC	•		4 mm	•			•	54/35
<b>IS-E1204-BPCB2</b>	12 - 24 VDC	•		4 mm		•		•	54/35
<b>IS-N1208-BPOB2</b>	12 - 24 VDC	•		8 mm	•			•	53/26
<b>IS-N1208-BPCB2</b>	12 - 24 VDC	•		8 mm		•		•	53/26

**M18 cylindrical housing** with 2 meter cable connection

<b>IS-E1808-BPOB2</b>	12 - 24 VDC	•		8 mm	•			•	60/40
<b>IS-E1808-BPCB2</b>	12 - 24 VDC	•		8 mm		•		•	60/40
<b>IS-N1812-BPOB2</b>	12 - 24 VDC	•		12 mm	•			•	60/30
<b>IS-N1812-BPCB2</b>	12 - 24 VDC	•		12 mm		•		•	60/30

Note: **NPN** available (replace **BP** with **BN**)