

Inductive Proximity Sensors

SE2 cylindrical M8 / M12 / M18 / M30 · SE2-W weld-immune · SE2-S square



SEGMENTsensor SE2 inductive proximity sensors detect metal targets without contact at 1-25 mm sensing distance in M8, M12, M18 and M30 cylindrical housings. 10-30 V DC, NPN or PNP, NO or NC, IP67 (IP68 on request), switching frequency up to 3 kHz, with weld-immune, high-temperature, all-metal and square-housing variants for OEM machine builders.

M8 · M12 · M18 · M30

Sn 1-25 mm

NPN / PNP · NO / NC

10-30 V DC

IP67 / IP68

Weld-immune option

TECHNICAL SPECIFICATIONS

Parameter	M8	M12	M18	M30
Sensing distance Sn (shielded)	1 mm	4 mm	8 mm	15 mm
Sensing distance Sn (unshielded)	2 mm	8 mm	12 mm	25 mm
Repeatability	≤ 5 % Sn	≤ 5 % Sn	≤ 5 % Sn	≤ 5 % Sn
Output current	100 mA	200 mA	200 mA	300 mA
Switching frequency	3000 Hz	1500 Hz	1000 Hz	500 Hz
Supply voltage	10-30 V DC	10-30 V DC	10-30 V DC	10-30 V DC
Output type	NPN / PNP, NO / NC	NPN / PNP, NO / NC	NPN / PNP, NO / NC	NPN / PNP, NO / NC
Voltage drop (ON)	≤ 2.5 V	≤ 2.5 V	≤ 2.5 V	≤ 2.5 V
Operating temperature	-25 °C to +70 °C (HT: -40 °C to +85 °C)			
Housing / sensing face	Zinc alloy, brass or 316L SS / PBT (PTFE-coated weld-immune)			
Connection	2 m PVC cable or M12 4-pin connector (custom 0.5-10 m, PUR / PTFE)			
Protection / compliance	IP67 (IP68 on request) · EN 60947-5-2 · CE · RoHS 3 · UKCA			

TYPICAL APPLICATIONS

- Semiconductor automation
 - Automotive welding lines
 - Conveyor & packaging
 - CNC & machine tools
- Hydraulic cylinder end-stops
 - Press & stamping
 - Food & beverage (316L)
 - Metal parts assembly

OEM OPTIONS

SE2-W weld-immune (≥600 A/m field rejection) · SE2-HT high-temperature · SE2-AM all-metal factor 1 · SE2-S square 20 mm / 40 mm · 2-wire AC/DC versions · private label from 50 pcs

SELECTION FAQ

Shielded or unshielded?
Shielded (flush) sensors mount flush in metal; unshielded give up to 2× the sensing distance but need clearance around the face.

NPN or PNP?
PNP (sourcing) is standard for European and North American PLC inputs; NPN (sinking) is common in Asian controls. Both are stocked.

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