

Proximity Sensors Inductive Stainless Steel Housing Types EI, AC, M 12, M 18, M 30



- Stainless steel housing, cylindrical
- Diameter: M 12, M 18, M 30
- Sensing distance: 2 to 15 mm
- Power supply: 20 to 250 VAC
- Output: SCR, make or break switching
- Protection: Overvoltage
- LED-indication for output ON
- Long or short housing
- 2 m cable or plug M 12 (double keyed)

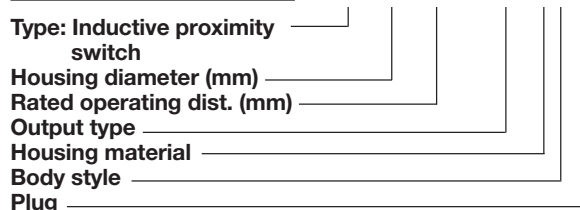
Product Description

AC proximity switches constructed in stainless steel (1.4301) housings. Sizes available are M 12, M18 and M 30. Length of housing is selectable with 30 mm thread or 50

mm thread. Bright LED ring utilizing a yellow LED clearly gives indication of output status. Protection rating IP 67 ensures environmental compatibility.

Ordering Key

EI 1202 TBOSL-6



Type Selection AC Types, Cable and M 12 Plug

Housing diameter	Body style	Connection	Rated operating dist. (S _n)	Ordering no. SCR Make switching	Ordering no. SCR Break switching
M 12	Long	Cable	2 mm ¹⁾	EI 1202 TBOSL	EI 1202 TBCSL
M 12	Long	Cable	4 mm ²⁾	EI 1204 TBOSL	EI 1204 TBCSL
M 18	Short	Cable	5 mm ¹⁾	EI 1805 TBOSS	EI 1805 TBCSS
M 18	Short	Cable	8 mm ²⁾	EI 1808 TBOSS	EI 1808 TBCSS
M 30	Short	Cable	10 mm ¹⁾	EI 3010 TBOSS	EI 3010 TBCSS
M 30	Short	Cable	15 mm ²⁾	EI 3015 TBOSS	EI 3015 TBCSS



Specifications

Rated operational volt. (U _e)	24 to 240 VAC,	Effective operating dist. (S _r)	0.9 x S _n ≤ S _r ≤ 1.1 x S _n
(U _B)	20 to 265 VAC, 50 to 60 Hz	Usable operating dist. (S)	0.9 x S _r ≤ S _u ≤ 1.1 x S _r
Rated operational current (I _e)		Ambient temperature	
Continuous	10 - 500 mA	Operating	-25° to +70°C (-13° to +158°F)
Short-time	≤ 2.5 A, max. 20 ms	Storage	-30° to +80°C (-22° to +176°F)
Minimum load current	10 mA	Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
OFF-state current (I _o)	≤ 2 mA	Housing material	
Voltage drop (U _d)	≤ 8 VAC at max. load	Body	Stainless steel (1.4301)
Protection	Transients	Front	Grey thermoplastic polyester
Transient voltage	Level 3, 2.5 kV, acc. to IEC 60255-5 (500 Ω, 0.5 J) (prepared)	Back	Black thermoplastic polyester
Power ON delay	≤ 100 ms	Connection	
Frequency of operating cycles (f)	25 Hz	Cable	2 m, 2 x 0.50 mm ² , grey PVC, oil proof
Indication for output ON	LED, yellow	Plug	M 12 x 1 (double keyed)
Assured operating dist. (S _a)	0 ≤ S _a ≤ 0.81 S _n	Cables for plug (-6)	CONH6A-xx
Repeat accuracy (R)	≤ 5%	Weight (cable excluded)	EI 12 80 g
Hysteresis (H) (Differential travel)	3 to 20% of sensing distance		EI 18 130 g
			EI 30 200 g
		Tightening torque	EI 12 7.5 Nm (x)
			17.5 Nm (y)
			EI 18 27.5 Nm
			EI 30 100.0 Nm