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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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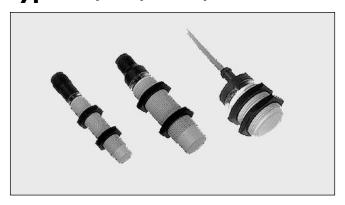






Proximity Sensors Inductive Thermoplastic Polyester Housing Types El, AC, M18, M30





- Thermoplastic polyester housing, cylindrical
- Diameter: M18 and M30
- Sensing distance: 5 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 M12 plug (double keyed)

Product Description

AC proximity switches constructed in rugged thermoplastic polyester housings. Sizes available are M18 and M30. 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	1808	B TE	SCPL-6
Type				
Housing diameter (mm) ——				
Rated operating dist. (mm) -				
Output type				_
Housing material —				
Body style —				
Plug				

Type Selection AC Types, Cable and M12 Plug

Housing	Body	Connec-	Rated operating dist. (S _n)	Ordering no.	Ordering no.
diameter	style	tion		SCR NO	SCR NC
M18 M18 M18	Short Long	Cable Cable Cable Cable	5 mm ¹⁾ 5 mm ¹⁾ 8 mm ²⁾	EI 1805 TBOPS EI 1805 TBOPL EI 1808 TBOPL	EI 1808 TBCPL
M18	Long Long	Plug	8 mm ²⁾	EI 1808 IBOPL	EI 1808 TBCPL-6
M30	Long	Cable	10 mm ¹⁾	EI 3010 TBOPL	
M30	Long	Cable	15 mm ²⁾	EI 3015 TBOPL	

¹⁾ For flush mounting in metal

Specifications

Rated operational volt. (U_e) (U_B)	24 to 240 VAC 20 to 265 VAC, 50 to 60 Hz
Rated operational current (l _e)	
Continuous	10 - 500 mA
Short-time	≤ 2.5 A, max. 20 ms
Minimum load current	10 mA
OFF-state current (I _r)	≤ 2 mA
Voltage drop (U _d)	≤ 8 VAC at max. load
Protection	Transients
Transient voltage	Level 3, 2.5 kV, acc. to IEC 60255-5 (500 Ω , 0.5 J) (prepared)
Power ON delay	≤ 100 ms
Frequency of operating cycles (f)	25 Hz

Indication for output ON	LED, yellow
Assured operating dist. (S _a)	$0 \leq S_a \leq 0.81 \ S_n$
Repeat accuracy (R)	≤ 5%
Hysteresis (H) (Differential travel)	3 to 20% of sensing distance
Effective operating dist. (S _r)	$0.9 \times S_n \le S_r \le 1.1 \times S_n$
Usable operating dist. (S)	$0.9 \times S_r \le S_u \le 1.1 \times S_r$
Ambient temperature Operating Storage	-25° to +70°C (-13° to +158°F) -30° to +80°C (-22° to +176°F)
Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Housing material Body Back	Grey thermoplastic polyester Black thermoplastic Polyester

²⁾ For non-flush mounting in metal



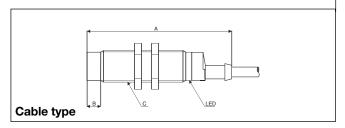
Specifications (cont.)

Connection	
Cable	2 m, 2 x 0.50 mm ²
	grey PVC, oil proof
Plug	M12 x 1 (double keyed)
Cables for plug (-6)	CONH6A-xx
Weight (cable excluded)	El 18 110 g
,	El 30 180 a

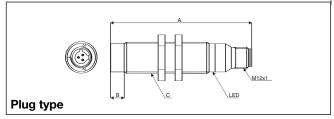
Tightening torque	EI 18 2.6 Nm EI 30 7.5 Nm		
Approvals	UL, CSA		
CE-marking	Yes		

Dimensions

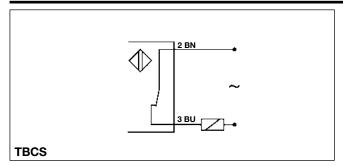
Туре	Α	B (mm)	C (mm)
EI 1805 TBS EI 1805 TBL EI 1808 TBL EI 1808 TBL-6	57 77 85 83	0 8 8	M 18 x 1 x 30 M 18 x 1 x 50 M 18 x 1 x 50 M 18 x 1 x 50

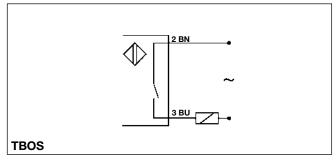


Туре	Α	B (mm)	C (mm)
EI 3010 TBL	79	0	M 30 x 1.5 x 50
EI 3015 TBL	91	12	M 30 x 1.5 x 50

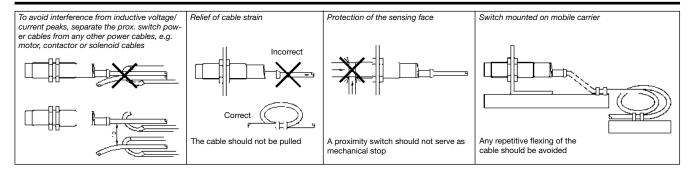


Wiring Diagrams





Installation Hints



Power Supplies

Power supplies VAC:

> SS 110