Proximity Sensors Inductive Stainless Steel Housing Type El, M30, High Noise Immunity





- · Stainless steel housing, cylindrical
- Diameter: M30
- Sensing distance: 9 mmHysteresis: 25 45%
- Power supply: 24 VDC
- Output: Transistor PNP, make switching
- Protection: Short-circuit and reverse polarity
- LED-indication for output ON
- 2 m PUR cable, shield connected internaly to housing
- Internal 4,7 k Ω , 0,5 W pull down resistor

Product Description

Proximity switch in stainless steel housing M30. Made after Euronorm EN 50 008. High immunity to electromagnetic disturbances. Decreased sensitivity to unwanted axle displacements.

Ordering Key EI 3010 PPOSS 1556

Type: Inductive proximity — switch	
Housing diameter (mm) ———	
Rated operating dist. (mm) ———	
Output type	
Housing material —	
Body style]
Special type number —	

Type Selection

Housing diameter	Body style	Connection	Rated operating distance (S _n)	Ordering no. Transistor PNP, make switching
M 30	Short	Cable	9 mm ¹⁾	EI 3010 PPOSS 1556

¹⁾ For flush mounting in metal Make switching = Normally Open (NO)

Specifications

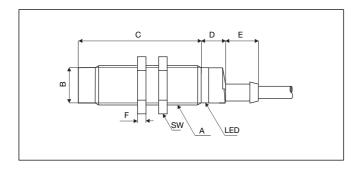
Rated operational volt. (U _e) (U _B)	20 to 30 VDC 18 to 33 VDC (ripple included)	
Ripple	≤ 10%	
Rated operational current (I _e) Continuous	≤ 200 mA	
No-load supply current (I _o)	Output ON: < 6.5 mA Output OFF: < 2.7 mA	
Voltage drop (U _d)	≤ 2 VDC at max. load	
Protection	Reverse polarity, short-circuit, transients	
Transient voltage	≤ 700 V/0.5 J	
EMC	Approved according to IEC 60947-5-2	
Power ON delay	< 10 ms	
Frequency of operating cycles (f)	300 Hz	
Indication for output ON	LED, yellow	
Assured operating dist. (Sa)	$0 \leq S_a \leq 0.81 \ S_n$	

Repeat accuracy (R)	≤ 5%
Hysteresis (H) (Differential travel)	25 to 45% 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 Front Back	Stainless steel (1.4301) Grey thermoplastic polyester Black polyester
Connection Cable	3,1 m, 3 x 0.3 mm ² , grey PUR, shield cable
Weight (cable excluded)	50 g
Tightening torque	100.0 Nm
CE-marking	Yes

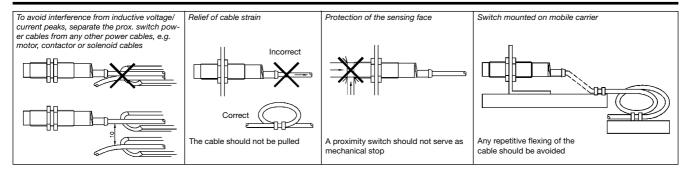


Dimensions

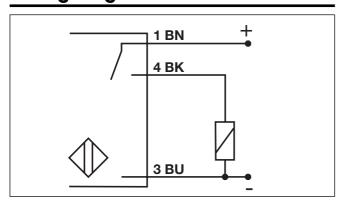
Туре	A	B Ø mm	C mm	D mm	E mm	F mm	SW mm
EI 3010 PPOSS 1556	M 30 x 1.5 x 30	28	30	13.6	15.4	5	36



Installation Hints



Wiring Diagrams



Power Supplies

Power supplies VDC: > SS 130/140. Power supplies with amplifier relays: > SV 190.