Proximity Sensors Capacitive Stainless Steel Housing Type EC, M30, AC

TRIPLESHIELD™

CARLO GAVAZZI

- Featuring *TRIPLESHIELD*™ sensor protection
- Rated operational voltage: 20-250 VAC
- Adjustable sensing distance 2-16 mm or 4-25 mm
- Output: SCR
- Make and break switching function
- LED indication
- High noise immunity
- Flush and non-flush types
- Plug and cable versions available
- DC versions in the same housing

Product Description

Capacitive proximity switches with either sensing distance 16 mm flush mounted or 25 mm sensing distance non-flush mounted. 2-wire AC output with a switch for choosing NO and NC switching. M30 stainless steel housing with 2 m PVC cable or plug. Ideal for use in level and plastic machinery applications. Both types are available in polyester housings.

Ordering Key

EC 3025 TBA S L-6

- Capacitive proximity switch
- Housing diameter (mm)
- Rated operating dist. (mm)
- Output type
- Housing material
- Housing type
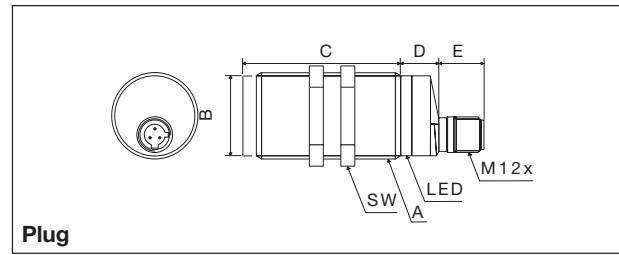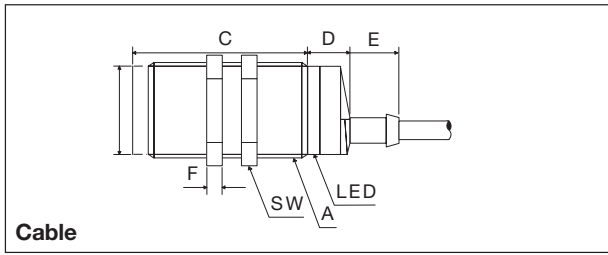- Connection type

Type Selection

Housing diameter	Rated operating dist. (S_n) [1]	Mounting	Ordering no. SCR, cable Make & break switching	Ordering no. SCR, plug Make & break switching
M30	16 mm	Flush (built-in)	EC 3016 TBASL	EC 3016 TBASL-6
M30	25 mm	Non-flush	EC 3025 TBASL	EC 3025 TBASL-6

[1] Object: Grounded steel plate

Specifications

Rated operating dist. (S_n)		**Power ON delay**	≤ 100 ms
3016:	2 to 16 mm factory set at 16 mm	**Frequency of operating cycles** (f)	10 Hz
3025:	4 to 25 mm factory set at 25 mm	**Indication for output ON**	LED, yellow
Sensitivity	Adj. multiturn pot.meter	**Environment** Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
Effective operating dist. (S_r)	$0.9 \times S_n \le S_r \le 1.1 \times S$	**Temperature** Operating temperature Storage temperature	-25° to +80°C (-13° to +176°F) -40° to +85°C (-40° to +185°F)
Usable operating dist. (S_u)	$0.8 \times S_r \le S_n > 1.2 \times S_r$		
Repeat accuracy (R)	≤ 5%	**Housing material** Body Front Cable end Nuts	Stainless steel (St 304) Grey, polyester Polyester Nickel plated brass
Hysteresis (H)	4 to 20% of sensing distance		
Rated operational volt. (U_B)	20 to 250 VAC (ripple included)		
Ripple	≤ 10%	**Connection** Cable	Grey, 2 m, 2 x 0.5 mm² Oil proof, PVC
Rated operational current (I_e) Continuous Short-time	≤ 500 mA < 2.5 A (max. 20 ms)	Plug (-6) Cable for plug (-6)	M12 x 1 double keyed CON.-6A-series
Min. load current	≤ 10 mA	**Weight** (incl. nuts)	**3016:** 140 g **3025:** 150 g
OFF-state current (I_r)	< 2.5 mA (@ 240 VAC) 1.7 mA (@ 120 VAC)	**Approvals**	UL
Voltage drop (U_d)	≤ 10 VAC (at loads ≥ 20 mA)	**CE-marking**	Yes
Protection	Transients		

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Dimensions

Cable

Plug

Type	A	B Ø mm	C mm	D mm	E mm	F mm	SW mm
EC 3016TBASL(-6)	M30 x 1.5 x 50	28	50	13.6	15.4	5	36
EC 3025TBASL(-6)	M30 x 1.5 x 50	28	62	13.6	15.4	5	36