

Proximity Sensors Capacitive Thermoplastic Polyester Housing Type EC, M30, AC

TRIPLESIELD™

CARLO GAVAZZI



- Featuring **TRIPLESIELD™** 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. Grey M30 polyester housing with 2 m PVC cable or plug. Ideal for use in level and plastic machinery applications. Both types are available in metal housings.

Ordering Key

EC 3025 TBA P 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 TBAPL	EC 3016 TBAPL-6
M30	25 mm	Non-flush	EC 3025 TBAPL	EC 3025 TBAPL-6

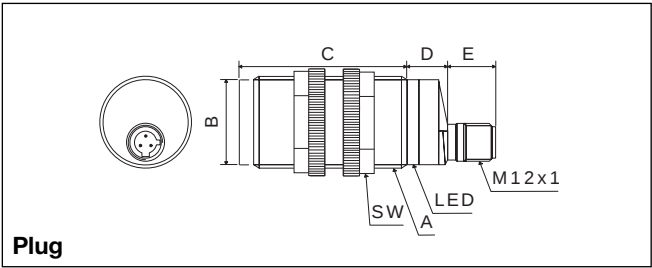
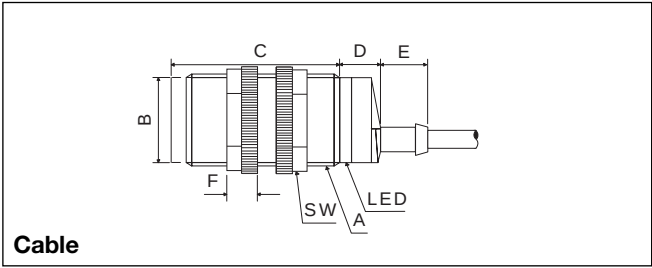
¹⁾ Object: Grounded steel plate

Specifications

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



Dimensions



Type	A	B Ø mm	C mm	D mm	E mm	F mm	SW mm
EC 3016TBAPL(-6)	M30 x 1.5 x 50	28	50	13.6	15.4	10	36
EC 3025TBAPL(-6)	M30 x 1.5 x 50	28	62	13.6	15.4	10	36