

# 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 <sub>n</sub> ) <sup>1)</sup>	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

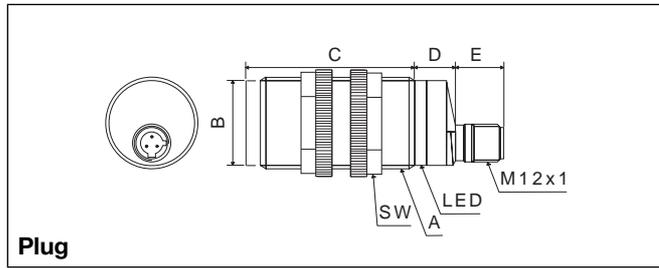
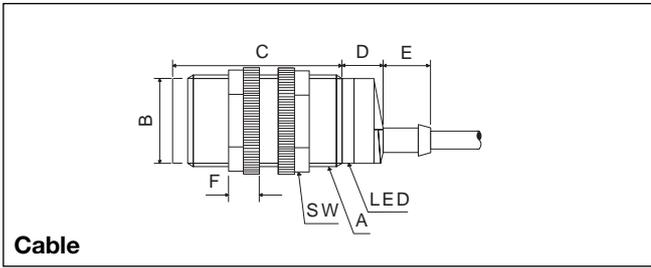
<sup>1)</sup> Object: Grounded steel plate

## Specifications

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