

# Proximity Sensors Capacitive Thermoplastic Polyester Housing Type EC, M30, DC

**TRIPLESIELD™**

**CARLO GAVAZZI**



- Featuring **TRIPLESIELD™** Sensor protection
- Rated operational voltage: 10-40 VDC
- Adjustable sensing distance 2-16 mm or 4-25 mm
- Output: DC 200 mA, NPN or PNP
- Make and break switching function
- LED indication
- High noise immunity
- Flush and non-flush types
- Plug and Cable versions available
- AC versions in the same housing

## Product Description

Capacitive proximity switches with either sensing distance 16 mm flush mounted in metal or sensing distance 25 mm non-flush mounted. 4-wire DC output with both make (NO)

and break (NC) switching. Grey M30 polyester housing with 2 m PVC cable or plug. Ideal for use in level and plastic machinery applications.

## Ordering Key **EC 3025 NPA P L-1**

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

## Type Selection

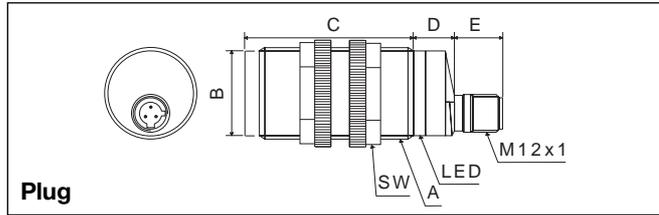
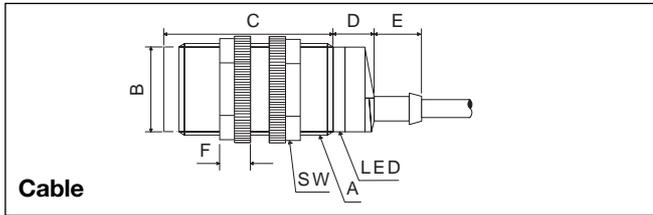
Housing diameter	Rated operating dist. (S <sub>n</sub> ) <sup>1)</sup>	Mounting	Ordering no. Transistor NPN/cable Make & break switching	Ordering no. Transistor NPN/plug Make & break switching	Ordering no. Transistor PNP/cable Make & break switching	Ordering no. Transistor PNP/plug Make & break switching
M30	16 mm	Flush (built-in)	<b>EC 3016 NPAPL</b>	<b>EC 3016 NPAPL-1</b>	<b>EC 3016 PPAPL</b>	<b>EC 3016 PPAPL-1</b>
M30	25 mm	Non-flush	<b>EC 3025 NPAPL</b>	<b>EC 3025 NPAPL-1</b>	<b>EC 3025 PPAPL</b>	<b>EC 3025 PPAPL-1</b>

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

## Specifications

<b>Rated operating dist. (S<sub>n</sub>)</b> <b>3016:</b>	2 to 16 mm factory set at 16 mm	<b>Frequency of operating cycles (f)</b>	50 Hz
<b>3025:</b>	4 to 25 mm factory set at 25 mm	<b>Indication for output ON</b>	LED, yellow
<b>Sensitivity</b>	Adj. multiturn pot.meter	<b>Environment</b> Degree of protection	IP 67 (Nema 1, 3, 4, 6, 13)
<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>Temperature</b> Operating temperature Storage temperature	-25 to +80°C (-13 to +176°F) -40 to +85°C (-40 to +185°F)
<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>Housing material</b> Body Cable end Nuts	Grey thermoplastic polyester Polyester Black reinforced nylon
<b>Repeat accuracy (R)</b>	≤ 5%	<b>Connection</b> Cable	Grey, 2 m, 4 x 0.34 mm <sup>2</sup> Oil proof, PVC
<b>Hysteresis (H)</b>	3 to 20% of sensing distance	Plug (-1) Cable for plug (-1)	M12 x 1 CON.1A-series
<b>Rated operational volt. (U<sub>B</sub>)</b>	10 to 40 VDC (ripple included)	<b>Weight (incl. nuts)</b>	<b>3016:</b> 140 g <b>3025:</b> 150 g
<b>Ripple</b>	≤ 10%	<b>Approvals</b>	UL, CSA
<b>Rated operational current (I<sub>e</sub>)</b> Continuous	≤ 200 mA	<b>CE-marking</b>	Yes
<b>No-load supply current (I<sub>o</sub>)</b>	≤ 10 mA (no load)		
<b>Voltage drop (U<sub>d</sub>)</b>	≤ 2.5 VDC at max. load		
<b>Protection</b>	Reverse polarity, short-circuit, transients		

## Dimensions



Type	A	B Ø mm	C mm	D mm	E mm	F mm	SW mm
EC 3016xPAPL(-1)	M 30 x 1.5 x 50	28	50	13.6	15.4	10	36
EC 3025xPAPL(-1)	M 30 x 1.5 x 50	28	62	13.6	15.4	10	36