

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

TRIPLESIELD™

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- 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 _n) ¹⁾	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)	EC 3016 NPAPL	EC 3016 NPAPL-1	EC 3016 PPAPL	EC 3016 PPAPL-1
M30	25 mm	Non-flush	EC 3025 NPAPL	EC 3025 NPAPL-1	EC 3025 PPAPL	EC 3025 PPAPL-1

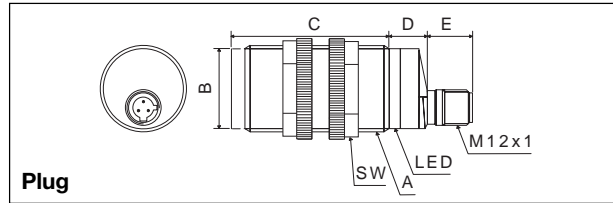
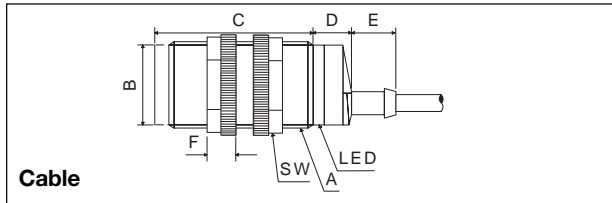
¹⁾ Object: Grounded steel plate

Specifications

Rated operating dist. (S_n) 3016:	2 to 16 mm factory set at 16 mm	Frequency of operating cycles (f)	50 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 x S _n ≤ S _r ≤ 1.1 x S _n	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 x S _r ≤ S _u < 1.2 x S _r	Housing material Body Cable end Nuts	Grey thermoplastic polyester Polyester Black reinforced nylon
Repeat accuracy (R)	≤ 5%	Connection Cable	Grey, 2 m, 4 x 0.34 mm ² Oil proof, PVC
Hysteresis (H)	3 to 20% of sensing distance	Plug (-1) Cable for plug (-1)	M12 x 1 CON.1A-series
Rated operational volt. (U_B)	10 to 40 VDC (ripple included)	Weight (incl. nuts)	3016: 140 g 3025: 150 g
Ripple	≤ 10%	Approvals	UL, CSA
Rated operational current (I_e) Continuous	≤ 200 mA	CE-marking	Yes
No-load supply current (I_o)	≤ 10 mA (no load)		
Voltage drop (U_d)	≤ 2.5 VDC at max. load		
Protection	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