

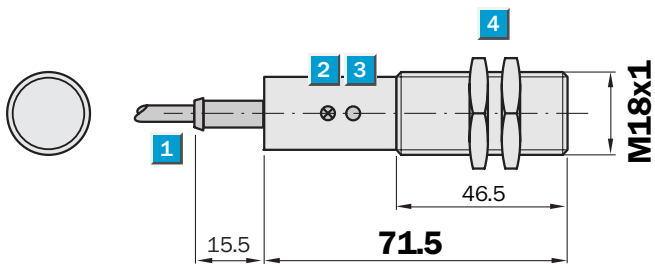
Capacitive sensor, CM18, DC 4-wire, PTFE/teflon

Sensing range
8 mm

Capacitive sensor

- PTFE housing with M18 x 1 mm
- High EMC immunity
- Short-circuit protection (pulsed)
- Complementary output function
- Enclosure rating IP 67
- LED status indicator

Dimensional drawing

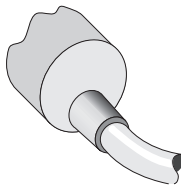


- 1 Connection
- 2 Display LED
- 3 Potentiometer
- 4 Fastening nuts (2 x); width across 24, PTFE

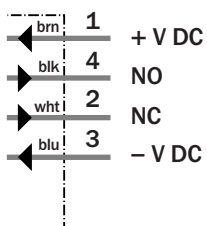


Connection type

- CM18-08BNP-TWO
- CM18-08BPP-TWO



4 x 0.34 mm²



See chapter Accessories
Mounting systems

Technical specifications		CM18-	08BNP-TWO	08BPP-TWO									
Sensing range S_n	8 mm												
Electrical configuration	DC 4-wire												
Supply voltage V_s	DC 10 ... 40 V												
Ripple U_{pp}	$\leq 10\%$ ¹⁾												
Voltage drop U_d	$\leq 2.5 V$ ²⁾												
Power consumption	$\leq 10 mA$ ³⁾												
Continuous current I_a	$\leq 200 mA$												
Time delay before availability t_v	$\leq 100 ms$												
Hysteresis H, of s_r	4 ... 20 %												
Repeatability R	$\leq 5\%$ (U_b and T_a constant) ⁴⁾												
Temperature drift, of s_r	$\pm 10\%$												
EMC	According to EN 60947-5-2												
Switching output	NPN												
	PNP												
Output function	Complementary												
Installation	Flush												
Connection type	Cable, PVC, 2 m												
Enclosure rating	IP 67 ⁵⁾												
Max. switching frequency	30 Hz												
Dimensions	M18 x 1 ⁶⁾												
Short-circuit protection	\checkmark ⁷⁾												
Reverse polarity protection	\checkmark												
Power-up pulse suppression	\checkmark												
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm												
Ambient temperature operation	-25 °C ... +60 °C												
Housing material	PTFE/teflon												
Tightening torque	2.6 Nm												

¹⁾ of U_b
²⁾ at I_a max
³⁾ without load
⁴⁾ of s_r
⁵⁾ according to EN 60529
⁶⁾ Thread diameter x pitch (mm)
⁷⁾ (pulsed)

Order information	
Type	Order no.
CM18-08BNP-TWO	6 026 194
CM18-08BPP-TWO	6 026 195

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