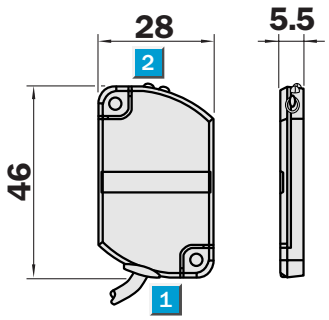
Sensing range 10 mm

Capacitive sensor

- Thin profile:
  28 x 46 x 5.5 mm (w x h x d)
- Adjustable sensing range
  1 ... 10 mm, non-flush
- Short circuit and reverse polarity protection
- Teach-in via button or COM-input

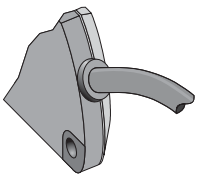
Dimensional drawing



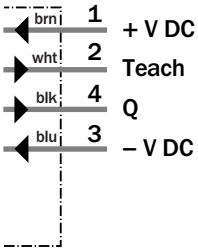
1 Connection
2 Display LED

Connection type

CQ28-10NNP-KW1
CQ28-10NPP-KW1



4 x 0.14 mm²



Technical specifications	CQ28-	10NNP -KW1	10NPP -KW1								
Sensing range S_n	10 mm										
Electrical configuration	DC 4-wire										
Supply voltage V_s	DC 10 ... 30 V										
Ripple U_{pp}	≤ 10 %										
Voltage drop U_d	≤ 2.5 V[1]										
Current consumption	≤ 12 mA[2]										
Continuous current I_a	≤ 200 mA										
Time delay before availability t_v	300 ms										
Hysteresis H, of s_r	Depending on teach adjustment										
Repeatability R	≤ 5 % (U_b and T_a constant)[3]										
Temperature drift, of s_r	± 10 %										
EMC	According to EN 60947-5-2										
Switching output	NPN										
	PNP										
Output function	Programmable										
Installation	Non-flush										
Connection type	Cable, PVC, 2 m										
Enclosure rating	IP 68[4]										
Max. switching frequency	10 Hz										
Dimensions	28 x 46 x 5.5 mm[5]										
Short-circuit protection	✓										
Reverse polarity protection	✓										
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm										
Ambient temperature operation	-20 °C ... +85 °C										
Ambient temperature storage	-40 °C ... +85 °C										
Housing material	Plastic, PBT										

[1] at I_a max
[2] Without load
[3] of s_r
[4] According to EN 60529
[5] Width x height x depth

Ordering information	
Type	**Order No.**
CQ28-10NNP-KW1	6 030 133
CQ28-10NPP-KW1	6 030 132