CQ28-10NPP-KPDS12

CAPACITIVE PROXIMITY SENSORS



CQ28-10NPP-KPDS12 | CQ

CAPACITIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
CQ28-10NPP-KPDS12	6068324

Other models and accessories -> www.sick.com/CQ

Detailed technical data

6

Features	
Housing	Rectangular
Dimensions (W x H x D)	28 mm x 46 mm x 5.5 mm
Sensing range S _n	1 mm 10 mm
Safe sensing range S _a	7.2 mm
Installation type	Non-flush
Switching frequency	10 Hz
Connection type	Cable with M8 male connector, 4-pin, 0.7 m $^{1)}$
Switching output	PNP
Output function	NC or NO
Electrical wiring	DC 3-wire
Adjustment	
Teach-in button	Sensitivity
Enclosure rating	IP68 ²⁾

¹⁾ Do not bend below 0 °C.

²⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	\leq 2.5 V DC ¹⁾
Current consumption	12 mA ²⁾
Time delay before availability	≤ 300 ms

 $^{1)}$ At I_a max.

 $^{\rm 4)}$ Supply voltage $\rm U_B$ and constant ambient temperature Ta.

⁵⁾ In EMC critical applications, conducted interference levels may lie within the frequency range of the oscillator. This can cause changes to the output signal. (See operating instructions.).

²⁾ Without load.

³⁾ Of Sr.

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Reproducibility	$\leq 5 \%^{(3)(4)}$
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2 ⁵⁾
Continuous current I _a	≤ 200 mA
Cable material	PVC
Conductor size	0.14 mm ²
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-20 °C +85 °C
Ambient temperature, storage	-40 °C +85 °C
Housing material	Plastic, PBT
Sensing face material	Plastic

¹⁾ At I_a max.

²⁾ Without load.

³⁾ Of Sr.

 $^{\rm (4)}$ Supply voltage ${\rm U}_{\rm B}$ and constant ambient temperature Ta.

⁵⁾ In EMC critical applications, conducted interference levels may lie within the frequency range of the oscillator. This can cause changes to the output signal. (See operating instructions.).

Reduction factors

Note	The values are reference values which may vary
Metal	1
Water	1
PVC	Approx. 0.4
Oil	Approx. 0.25
Glass	0.6
Ceramics	0.5
Alcohol	0.7
Wood	0.2 0.7
Installation note	
Remark	Associated graphic see "Installation"
A	27.6 mm
В	27.6 mm
F	6 x S _n (max. 60 mm)
Classifications	
ECLASS 5.0	27270102
ECLASS 5.1.4	27270102
ECLASS 6.0	27270102
ECLASS 6.2	27270102

27270102

27270102

27270102

27270102

ECLASS 7.0

ECLASS 8.0

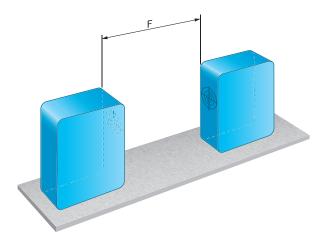
ECLASS 8.1

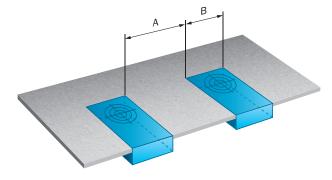
ECLASS 9.0

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ECLASS 10.0	27270102
ECLASS 11.0	27270102
ECLASS 12.0	27274201
ETIM 5.0	EC002715
ETIM 6.0	EC002715
ETIM 7.0	EC002715
ETIM 8.0	EC002715
UNSPSC 16.0901	39122230

Installation note

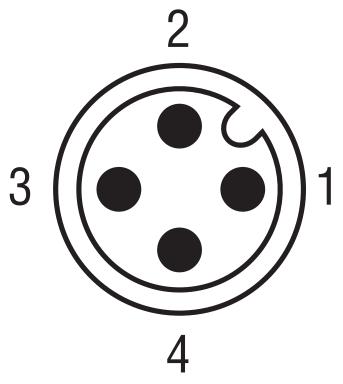




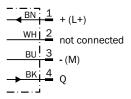
Connection type



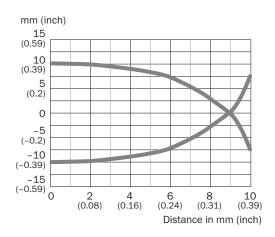
Connection diagram



Cd-066





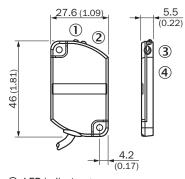


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Dimensional drawing (Dimensions in mm (inch))

CQ28, cable with male connector



LED indicator green
LED indicator yellow

③ Teach-in button

④ Sensing face

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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