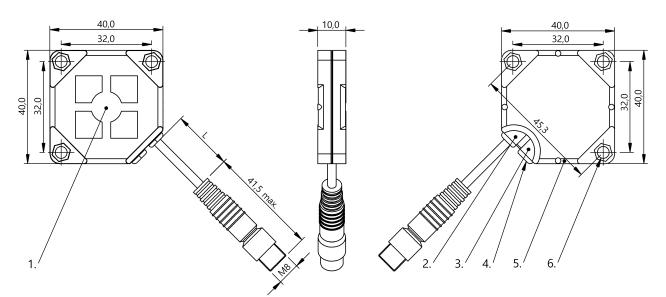
Capacitive Sensors BCS Q40BBAA-PSC20C-EP00,3-GS49 Order Code: BCS00U6

BVLLAL



1) Sensing surface, 2) Power indicator green, 3) Function indicator yellow, 4) Potentiometer, 5) Fastening: Cable tie, 6) Fastening: screw 3xM3



Basic features

Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Basic standard	IEC 60947-5-2
Sensitivity	Switching distance adjustable
Series	Q40
Trademark	Global

Display/Operation

Function indicator	yes
Power indicator	yes

Electrical connection

Cable diameter D	3.00 mm
Cable length L	0.3 m
Conductor cross-section	0.14 mm ²
Connection	M8x1-Male, 3-pin
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	10 µF	
No-load current lo max. at Ue	15 mA	
Operating voltage Ub	1030 VDC	
Rated insulation voltage Ui	75 V DC	
Rated operating current le	100 mA	
Rated operating voltage Ue DC	24 V	
Ready delay tv max.	25 ms	
Ripple max. (% of Ue)	10 %	
Switching frequency	100 Hz	
Utilization category	DC -13	
Voltage drop static max.	2.5 V	

Environmental conditions

Ambient temperature	-585 °C
Contamination scale	1
IP rating	IP67
Functional safety	
MTTF (40 °C)	195 a
Interface	
Switching output	PNP normally open (NO)

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Material		Range/Distance	
Cover material	PBT	Hysteresis H max. (% of Sr)	15.0 %
Housing material	PBT	Measuring range	120 mm
Material jacket	PUR	Rated operating distance Sn	20 mm
Material sensing surface	PBT	Repeat accuracy max. (% of Sr)	5.0 %
		Temperature drift max. (% of Sr)	20 % [-555 °C]
Mechanical data			
Dimension	40 x 40 x 10 mm		
Installation	for flush mounting		
Size	Block style		
Size	Block style		

Remarks

The push-pull switching outputs must not be connected in parallel.

The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything.

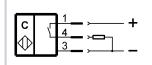
If no change in the switching signal is detected, the potentiometer should be turned forwards or backwards until a signal change occurs at the output. For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



Wiring Diagrams



Installation remarks

