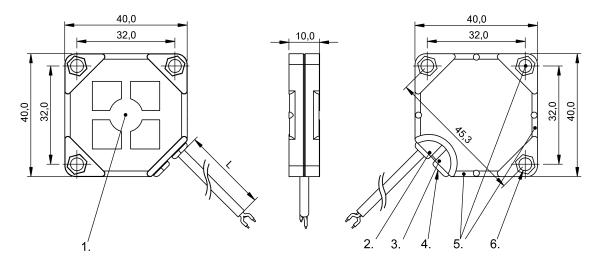
Capacitive Sensors BCS Q40BBAA-GPCFHC-EP02 Order Code: BCS0133





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

Electrical data

Basic features

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Additional features	Electrically conductive media	Load capacitance max. at Ue	10 µF
	Foam and residue compensation	No-load current lo max. at Ue	11.0 mA
Approval/Conformity	CE	Operating voltage Ub	1030 VDC
	cULus	Rated insulation voltage Ui	75 V DC
	EAC	Rated operating current le	100 mA
	WEEE	Rated operating voltage Ue DC	24 V
Basic standard	IEC 60947-5-2	Ready delay tv max.	200 ms
Scope of delivery	Installation guide Screwdriver	Ripple max. (% of Ue)	10 %
Sensitivity	media-dependent, adjustable	Switching frequency	10 Hz
Series	O40	Utilization category	DC -13
Selles	Q40	Voltage drop static max.	2.5 V
Display/Operation		Environmental conditior	
Function indicator	ves	Environmental condition	15
Power indicator	ves	Ambient temperature	-585 °C
	2	Contamination scale	3
Electrical connection		IP rating	IP67
Cable diameter D	3.00 mm	Functional safety	
Cable length L	2 m		
Conductor cross-section	0.14 mm ²	MTTF (40 °C)	441 a
Number of conductors	3		
Polarity reversal protected	yes	Interface	
Protection against device mix-ups	yes	Switching output	PNP/NPN/push-pull NO/NC

Programmable

Short-circuit protection

yes

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Material

Cover material	PBT
Housing material	PBT
Material jacket	PUR
Material sensing surface	PBT

Mechanical data

Dimension	40 x 40 x 10 mm
Installation	flush with container outer wall
Size	Block style
Range/Distance	
Temperature drift max. (% of Sr)	20 % [-555 °C]

Remarks

Note for using in standard applications with aqueous media: The Smart Level sensors are factory adjusted for standard applications. With this setting the Smart Level sensors can be used without further adjustment for detecting aqueous media through glass or plastic walls. The factory setting can automatically mask glass or plastic walls (approx. 0.5 mm to 6 mm) and compensate for foam, moisture and dirt buildup inside and outside the container. Special applications: The Smart Level sensors can also be used with aqueous media in previously unsolvable and critical applications such as through glass or plastic walls thicker than 6 mm. Here the user can change the factory setting.

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.

