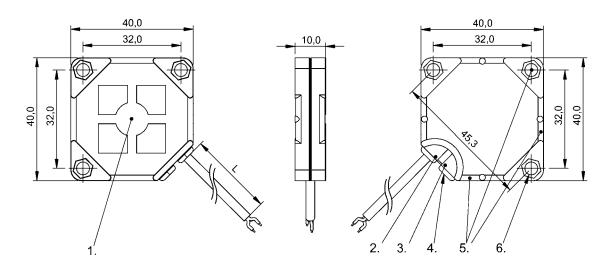
# BCS Q40BBAA-GPCFHC-EP02

Order Code: BCS0133

# BYLLUFF



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









Rasic feature	_

Additional features	Electrically conductive media
	Foam and residue compensation
Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	Installation guide
	Screwdriver
Sensitivity	media-dependent, adjustable
Series	Q40
Display/Operation	
Function indicator	yes
Power indicator	yes
Electrical connection	
Electrical conflection	
Cable diameter D	3.00 mm
Cable length L	2 m
Conductor cross-section	0.14 mm <sup>2</sup>
Number of conductors	3
Polarity reversal protected	yes
Polarity reversal protected Protection against device mix-ups	yes yes

#### Electrical data

Load capacitance max. at Ue	10 μF
No-load current lo max. at Ue	11.0 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.	200 ms
Ripple max. (% of Ue)	10 %
Switching frequency	10 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

### **Environmental conditions**

Ambient temperature	-585 °C
Contamination scale	3
IP rating	IP67

### Functional safety

MTTF (40 °C)	441 a
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# Interface

Switching output	PNP/NPN/push-pull NO/NC
	Programmable

### Capacitive Sensors

# BCS Q40BBAA-GPCFHC-EP02 Order Code: BCS0133



#### Material

 Cover material
 PBT

 Housing material
 PBT

 Material jacket
 PUR

 Material sensing surface
 PBT

#### Mechanical data

Dimension40 x 40 x 10 mmInstallationflush with container outer wallSizeBlock style

Range/Distance

Temperature drift max. (% of Sr) 20 % [-5...55 °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.

# Wiring Diagrams

P-NO N-NO N-NC P-NC

BN(1)
BK(4) IN IP
BU(3) P IN I