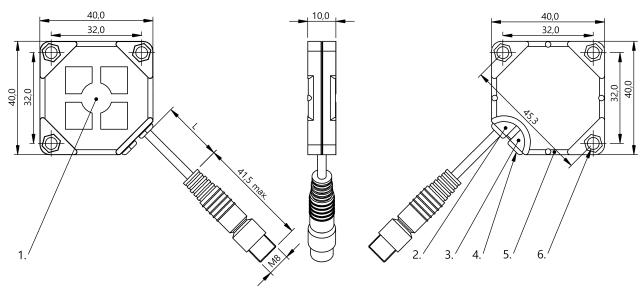
# BCS Q40BBAA-PSC20C-EP00,3-GS49 Order Code: BCS00U6

# BALLUFF



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







#### **Basic features**

Daoid idatailed	
Approval/Conformity	CE cULus EAC
	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 <sup>2</sup>
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
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# **Interface**

Subject to change without notice: 222465

Switching output	PNP normally open (NO)

## **Capacitive Sensors**

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



#### Material

Cover materialPBTHousing materialPBTMaterial jacketPURMaterial sensing surfacePBT

## Mechanical data

 $\begin{array}{lll} \textbf{Dimension} & 40 \times 40 \times 10 \text{ mm} \\ \textbf{Installation} & \text{for flush mounting} \\ \textbf{Size} & \text{Block style} \\ \end{array}$ 

#### Range/Distance

Hysteresis H max. (% of Sr) 15.0 %

Measuring range 1...20 mm

Rated operating distance Sn 20 mm

Repeat accuracy max. (% of Sr) 5.0 %

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

#### 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.

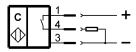
For more information about MTTF and B10d see MTTF / B10d Certificate

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**



# BCS Q40BBAA-PSC20C-EP00,3-GS49



# Order Code: BCS00U6

# **Installation remarks** BCS 2x Kemet 47nf R46KF247050N0K

1) Machine GND

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