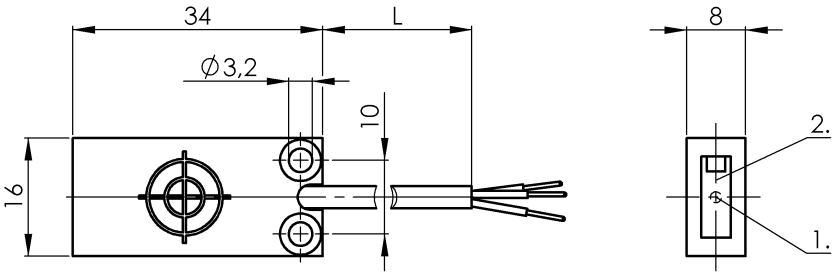
Capacitive Sensors

BCS R08RR01-PSM80C-EP02
Order Code: BCS0051



1) Potentiometer, 2) LED function indicator

Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	Screwdriver Holder Short guide
Sensitivity	Switching distance adjustable
Series	R08

Display/Operation

Function indicator	yes

Electrical connection

Cable diameter D	3.0 mm
Cable length L	2 m
Conductor cross-section	0.14 mm²
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

No-load current Io max. at Ue	10 mA
Operating voltage Ub	12...30 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	50 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	100 ms
Ripple max. (% of Ue)	10 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

Environmental conditions

Ambient temperature	-30...70 °C
Contamination scale	1
IP rating	IP67

Functional safety

MTTF (40 °C)	680 a

Interface

Switching output	PNP normally open (NO)

Material

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

Capacitive Sensors

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Mechanical data

Dimension	34 x 16 x 8 mm
Installation	for flush mounting

Range/Distance

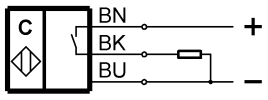
Hysteresis H max. (% of Sr)	15.0 %
Measuring range	1...8 mm
Rated operating distance Sn	8 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	20 %

Remarks

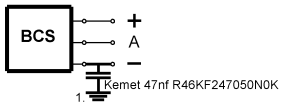
The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything.
If no change in the switching signal is detected, the potentiometer should be turned forwards or backwards until a signal change occurs at the output.
For more information about MTTF and B10d see MTTF / 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



Installation remarks



1) Machine GND