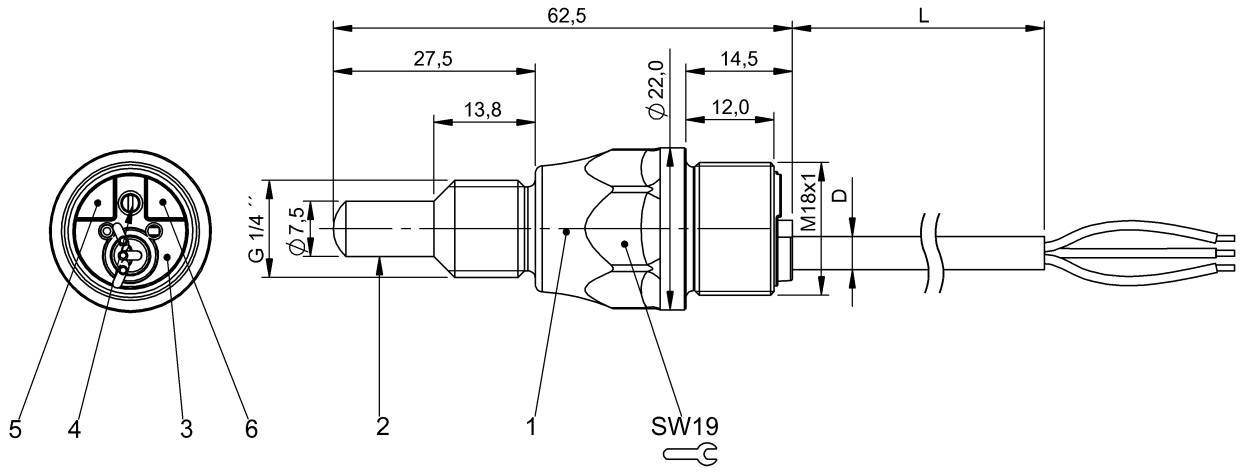
Capacitive Sensors

BCS S44KK02-GPCFNG-EP02
Order Code: BCS0103



1) Housing, 2) Sensing surface, 3) Cover, 4) Potentiometer, 5) Function indicator yellow, 6) Power indicator green

Basic features

Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-2
Sensitivity	media-dependent, adjustable
Series	S44

Display/Operation

Function indicator	yes
Power indicator	yes

Electrical connection

Cable diameter D	4.60 mm
Cable length L	2 m
Conductor cross-section	0.34 mm²
Number of conductors	3
Polarity reversal protected	no
Protection against device mix-ups	no
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	10 µF
Operating voltage Ub	10...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	10 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-5...105 °C
Contamination scale	3
IP rating	IP67, sensing surface: IP68 10 bar

Functional safety

MTTF (40 °C)	250 a

Interface

Switching output	PNP/NPN NO/NC codable

Material

Cover material	PA
Housing material	PEEK
Material jacket	PUR
Material sensing surface	PEEK

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Mechanical data

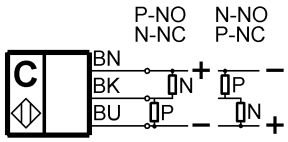
Dimension	Ø 11.9 x 62.5 mm
Installation	non-flush
Size	G1/4"
Thread (A)	G 1/4"
Tightening torque	1.5 Nm

Remarks

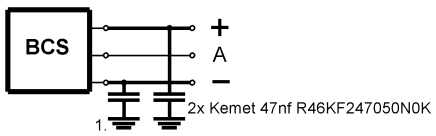
NO/NC function depends on the polarity.
The push-pull switching outputs must not be connected in parallel.
The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything.
If no change in the switching signal is detected, the potentiometer should be turned forwards 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



Installation remarks



1) Machine GND