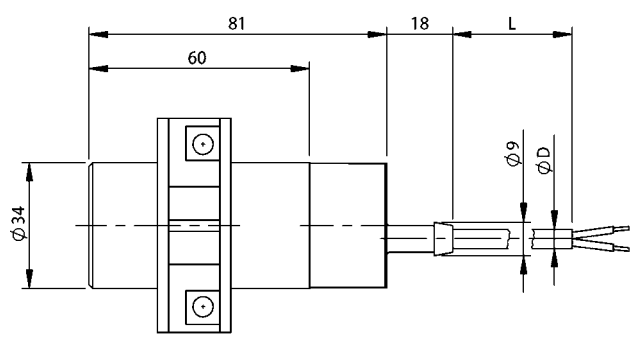
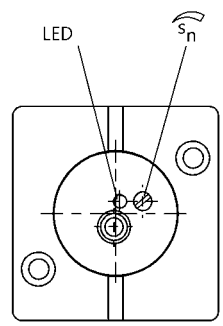


Capacitive Sensors
BCS G34KN2-UST20G-AV02
Order Code: BCS0007



Basic features

Approval/Conformity	CE WEEE UKCA cULus
Scope of delivery	Mounting clamp Screwdriver
Sensitivity	Switching distance adjustable
Series	G34

Display/Operation

Function indicator	yes
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Electrical connection

Cable diameter D	5.10 mm
Cable length L	2 m
Conductor cross-section	0.50 mm ²
Number of conductors	2
Short-circuit protection	no

Electrical data

Operating voltage U _b	20...250 VDC/20...250 VAC
Protection class	II
Rated insulation voltage U _i	250 V AC
Rated operating current I _e	200 mA
Rated operating current I _e AC	200 mA
Rated operating voltage U _e AC	110 V
Recommended K-type SCP	Miniature fuse in accordance with IEC60127-2 Sheet 1, ≤ 2 A (fast-acting).
Residual current max. at 110 V DC	1.7 mA
Residual current max. at 24 V DC	1.5 mA
Residual current max. at 250 V DC	2.5 mA
Switching frequency	40 Hz
Switching frequency (AC)	25 Hz
Utilization category	AC-140 DC -13
Voltage drop static max.	8 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
IP rating	IP65

Functional safety

MTTF (40 °C)	488 a
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Interface

Switching output	normally open (NO)
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Material

Housing material	PBT
Material jacket	PVC
Material sensing surface	PBT

Mechanical data

Dimension	Ø 34 x 81 mm
Installation	non-flush
Size	D34.0

Range/Distance

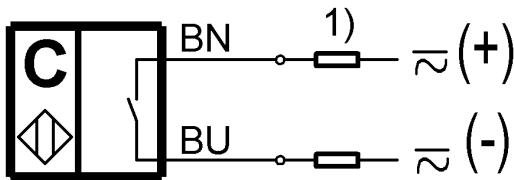
Hysteresis H max. (% of Sr)	15.0 %
Measuring range	0...16.2 mm
Rated operating distance Sn	20 mm
Real switching distance sr	20 mm
Temperature drift max. from end value	±15.0 %
Tolerance Sr	±10 %

Remarks

Ta 50°C...70°C: Ie= 250 - 2.5x(Ta-50)
Recommendation: After a short circuit check the device for proper function.
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



1) For SCP see electrical data