

**Basic features**

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

**Display/Operation**

<b>Function indicator</b>	yes
---------------------------	-----

**Electrical connection**

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

**Electrical data**

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

**Environmental conditions**

<b>Ambient temperature</b>	-25...70 °C
<b>Contamination scale</b>	3
<b>IP rating</b>	IP65

**Functional safety**

<b>MTTF (40 °C)</b>	488 a
---------------------	-------

**Interface**

<b>Switching output</b>	normally open (NO)
-------------------------	--------------------

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

**BALLUFF**

**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 $S_n$	20 mm
Real switching distance $s_r$	20 mm
Temperature drift max. from end value	±15.0 %
Tolerance $S_r$	±10 %

**Remarks**

Ta 50°C...70°C:  $I_e = 250 - 2.5 \times (T_a - 50)$

Recommendation: After a short circuit check the device for proper function.

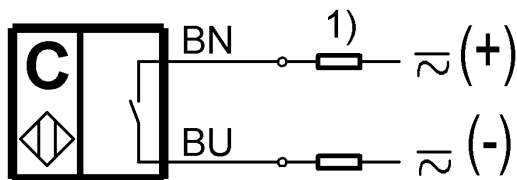
The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything.

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