

Basic features

Approval/Conformity	CE WEEE UKCA cULus
Scope of delivery	Screwdriver Nut M30x1.5 (2x)
Sensitivity	Switching distance adjustable
Series	M30

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

Capacitive Sensors
BCS M30KN2-UOT15G-AV02
Order Code: BCS000U

BALLUFF

Functional safety

MTTF (40 °C) 489 a

Interface

Switching output normally closed (NC)

Material

Housing material PBT
Material jacket PVC
Material sensing surface PBT

Mechanical data

Dimension $\varnothing 30 \times 81$ mm
Installation non-flush
Size M30x1.5

Range/Distance

Hysteresis H max. (% of Sr) 15.0 %
Measuring range 0...12.1 mm
Rated operating distance S_n 15 mm
Real switching distance s_r 15 mm
Temperature drift max. from end value ± 15.0 %
Tolerance S_r ± 10 %

Remarks

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

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

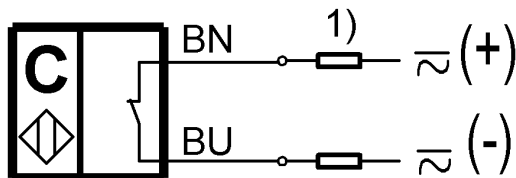
The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything.

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