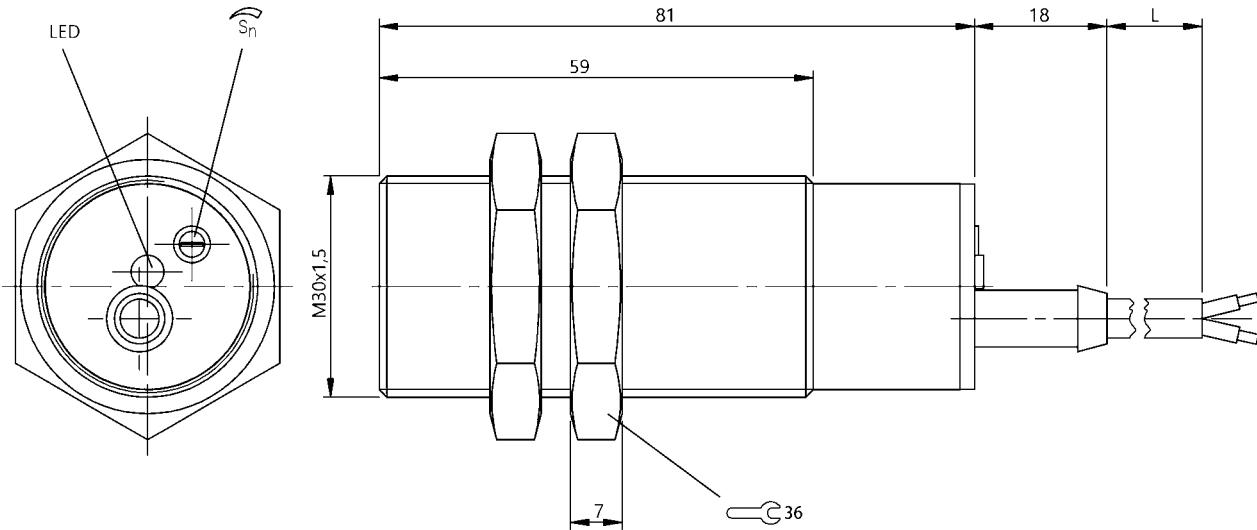


Capacitive Sensors  
BCS M30KN2-UST15G-AV02  
Order Code: BCS000W

**BALLUFF**



#### 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 <sup>2</sup>
Number of conductors	2
Short-circuit protection	no

#### Electrical data

Operating voltage Ub	20...250 VDC/20...250 VAC
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current Ie	200 mA
Rated operating current Ie AC	200 mA
Rated operating voltage Ue 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) 489 a

Interface

Switching output normally open (NO)

Material

Housing material	PBT
Material jacket	PVC
Material sensing surface	PBT

Mechanical data

Dimension	Ø 30 x 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 Sn	15 mm
Real switching distance sr	15 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.

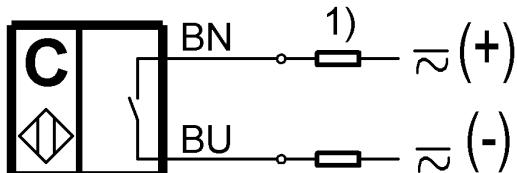
The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything.

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