



1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator



### Basic features

Approval/Conformity	CE UKCA WEEE cULus
Basic standard	IEC 60947-5-2
Scope of delivery	Nut
Sensitivity	media-dependent, adjustable
Series	Z01

### Display/Operation

Function indicator	yes
Power indicator	no

### Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Short-circuit protection	yes

### Electrical data

No-load current $I_0$ max., undamped	20 mA
Operating voltage $U_b$	10...30 VDC
Rated insulation voltage $U_i$	75 V DC
Rated operating current $I_e$	200 mA
Ready delay $t_v$ max.	300 ms
Switching frequency	5 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

### Environmental conditions

Ambient temperature	-40...75 °C
IP rating	IP67

### Functional safety

MTTF (40 °C)	311 a
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### Interface

Switching output	PNP normally closed (NC)
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### Material

Cover material	1.4305 stainless steel PA
Housing material	POM
Material sensing surface	POM

### Mechanical data

Dimension	Ø 18 x 101 mm
Installation	non-flush
Size	M18x1
Tightening torque	2 Nm

Capacitive Sensors  
**BCS Z01A403-POC46F-S04G-505**  
Order Code: BCS0150



**Range/Distance**

Hysteresis H max. (% of Sr)	15.0 %
Measuring range	1...15 mm

Rated operating distance Sn	4.6 mm
Repeat accuracy max. (% of Sr)	2.0 %
Temperature drift max. (% of Sr)	20 % [-5...55 °C]

**Remarks**

ESD requirements met if housing is grounded.

EMC: Per EN60947-5-2:1998+A1:1999+A2:2004 Section 7.2.6. only when used with connector BKS S19-14-.. Shield connected at both ends.

Increased surge resistance

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.

**Connector Drawings**



**Wiring Diagrams**

