

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



Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	Nut
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	18 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
Protection degree	IP67
Storage temperature	-40...85 °C

Functional safety

MTTF (40 °C)	311 a
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Material

Cover material	Stainless steel (1.4305) 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

Output/Interface

Switching output	PNP normally open (NO)
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Capacitive Sensors
BCS Z01A403-PSC15G-S04G-505
Order Code: BCS00EL

BALLUFF

Range/Distance

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

Rated operating distance S_n	15 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.

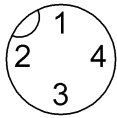
EMC: Per EN60947-5-2:1998+A1:1999+A2:2004 Section 7.2.6. only when used with connector BKS S19-14-.. Shield connected at both ends.

Increased surge resistance

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

