



1) Sensing surface, 2) Housing, 3) Cover



Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	Nut Screwdriver
Sensitivity	media-dependent, adjustable
Series	S01

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at U_e	10 μ F
Operating voltage U_b	10...35 VDC
Protection class	II
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	300 ms
Residual current I_r max.	200 μ A
Ripple max. (% of U_e)	10 %
Switching frequency	5 Hz
Utilization category	DC -13
Voltage drop static max.	2.7 V

Environmental conditions

Ambient temperature	-30...125 °C
Contamination scale	3
Protection degree	IP67 sensing surface: IP68 10 bar

Functional safety

MTTF (40 °C)	873 a
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Material

Cover material	Aluminum, Die casting
Housing material	Stainless steel (1.4305)
Material sensing surface	PTFE

Capacitive Sensors
BCS S01T401-NSCFNG-KM16-T02
Order Code: BCS006K

BALLUFF

Mechanical data

Dimension	54.8 x 48.5 x 106 mm
Installation	non-flush
Pressure rating max.	10 bar
Thread (A)	M18x1

Tightening torque 1.5 Nm

Output/Interface

Switching output NPN normally open (NO)

Wiring Diagrams

