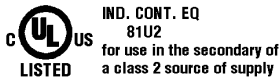


1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator



### Display/Operation

Function indicator	yes
Power indicator	yes

### Electrical connection

Cable diameter D	4.60 mm
Cable length L	2 m
Conductor cross-section	0.34 mm <sup>2</sup>
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

### Electrical data

No-load current $I_0$ max., undamped	15 mA
Operating voltage $U_b$	10...30 VDC
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
Ripple max. (% of $U_e$ )	10 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

### Environmental conditions

Ambient temperature	-25...85 °C
IP rating	IP67
Storage temperature	-25...85 °C

### Functional safety

MTTF (40 °C)	226 a
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### General data

Approval/Conformity	CE cULus WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	Nut (2x)
Sensitivity	Switching distance adjustable
Series	M30
Trademark	Global

### Material

Cover material	PBT PA
Housing material	Stainless steel (1.4305)
Material jacket	PUR
Material sensing surface	PBT

Capacitive Sensors  
**BCS M30B4E1-NOC25H-EP02**  
Order Code: BCS00N9

**BALLUFF**

**Mechanical data**

Dimension	Ø 30 x 66.5 mm
Installation	non-flush
Size	M30x1.5
Thread (A)	M30x1.5
Tightening torque	90 Nm

**Range/Distance**

Hysteresis H max. (% of Sr)	15.0 %
Measuring range	1...25 mm
Rated operating distance S <sub>n</sub>	25 mm
Repeat accuracy max. (% of Sr)	2.0 %
Temperature drift max. (% of Sr)	20 % [-5...55 °C]

**Output/Interface**

Switching output	NPN normally closed (NC)
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**Wiring Diagrams**

