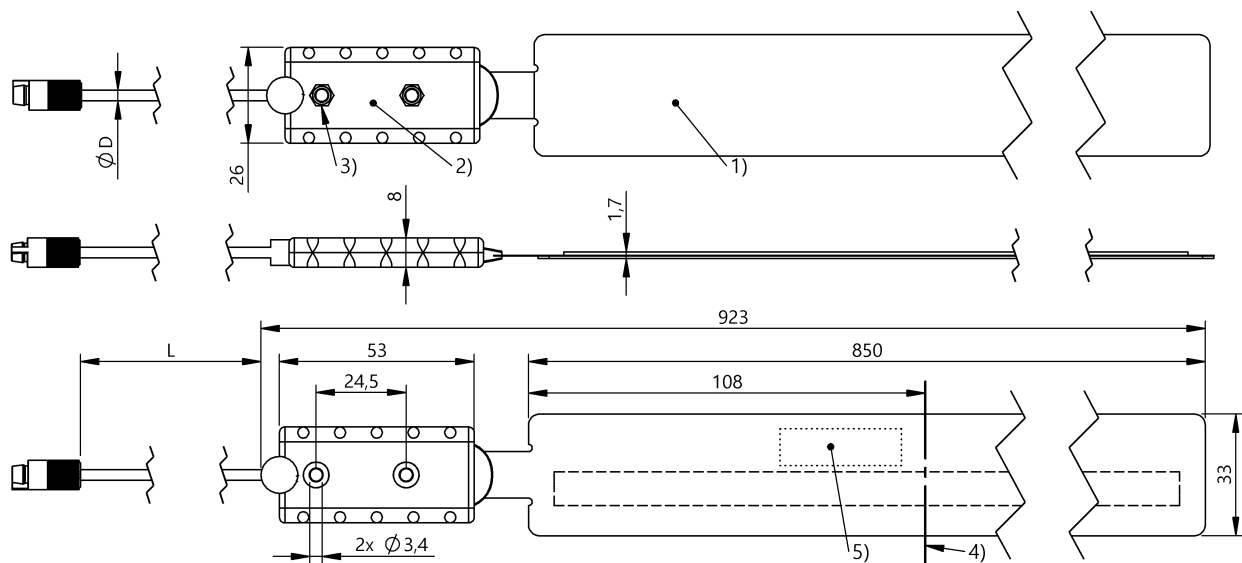


Capacitive Sensors
BCW F03EA85-XXSFNC-EP00,3-GZ01
Order Code: BCW0004

BALLUFF



1) Sensing surface, 2) Housing, 03) Fixation, 4) Measuring length min., 05) name plate



Basic features

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-7
Scope of delivery	Short guide Sealing tape
Sensitivity	adjustable on base unit
Series	F03

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Cable diameter D	2.9 mm
Cable length L	0.3 m
Connection	Binder 719, 3-pin
Number of conductors	3
Short-circuit protection	yes

Electrical data

No-load current I_0 max. at U_e	8 mA
Operating voltage U_b	4...8 VDC
Rated insulation voltage U_i	75 V DC
Rated operating voltage U_e DC	8 V
Ripple max. (% of U_e)	5 %
Switching frequency	50 Hz
Utilization category	DC -13

Environmental conditions

Ambient temperature	0...60 °C
Contamination scale	2
IP rating	IP64
IP rating (connector)	IP40
IP rating IEC 60529 (connector)	IP40

Functional safety

MTTF (40 °C)	472 a
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Interface

Interface	Special interface
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Material

Housing material	PET PA
Material jacket	TPU
Material sensing surface	3M VHB 5925

Capacitive Sensors
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Mechanical data

Dimension	33 x 2 x 850 mm
Installation	flush with container outer wall
Mounting part	Self-adhesive 2-hole screw mount
Weight	43 g

Range/Distance

Measuring range	850 mm
Non-linearity max.	±8 %FS
Repeat accuracy	2 %FS
Temperature drift max. from end value	±10.0 %

Remarks

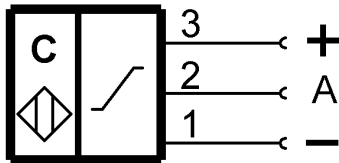
The product may only be used such that when there is a malfunction or total failure there is no risk to life and limb, machines or other high value equipment.
Malfunctions possible in the range of the working frequency 0.6...30 MHz
Non-linearity / accuracy within 10...90% of measuring range: 4%
For more 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



Technical Drawings

