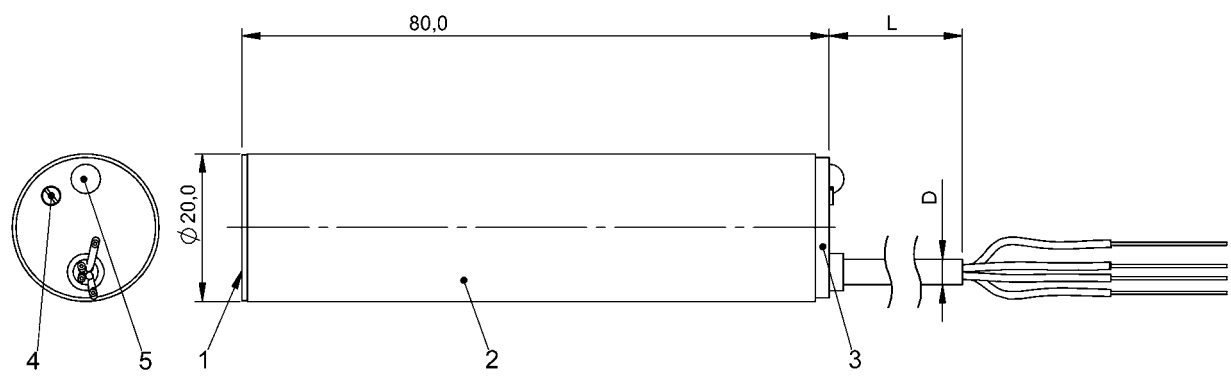Capacitive Sensors
BCS G20L4Q-PAC10C-EV03-D03
Order Code: BCS00W7

BALLUFF

1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) Function indicator yellow

CE · WEEE · UKCA

Basic features

Approval/Conformity	CE
	UKCA
	WEEE
Basic standard	IEC 60947-5-2
Sensitivity	Switching distance adjustable
Series	G20

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	5.00 mm
Cable length L	3 m
Conductor cross-section	0.34 mm²
Number of conductors	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Operating voltage Ub	10...30 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	100 mA
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	15 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

Environmental conditions

Ambient temperature	-25...70 °C
IP rating	IP65

Interface

Switching output	PNP normally open/normally closed (NO/NC)

Material

Housing material	1.4301 stainless steel
Material jacket	PVC
Material sensing surface	LCP

Mechanical data

Dimension	Ø 20 x 81 mm
Installation	for flush mounting
Size	D20.0

Capacitive Sensors
BCS G20L4Q-PAC10C-EV03-D03
Order Code: BCS00W7

BALLUFF

Range/Distance

Hysteresis H max. (% of Sr)	15.0 %	Rated operating distance Sn	10 mm
Measuring range	1.5...10 mm	Repeat accuracy max. (% of Sr)	5.0 %
		Temperature drift max. (% of Sr)	20 % [-20...50 °C]

Remarks

Test pulses of ≤ 0.3 ms are superimposed on the output signal which are absent when there is a fault, thereby allowing a fault condition to be detected for virtually any errors.

ESD: EN 61000-4-2: No discharge to potentiometer set screw permissible. Installation and operation only by trained personnel.

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.

Wiring Diagrams