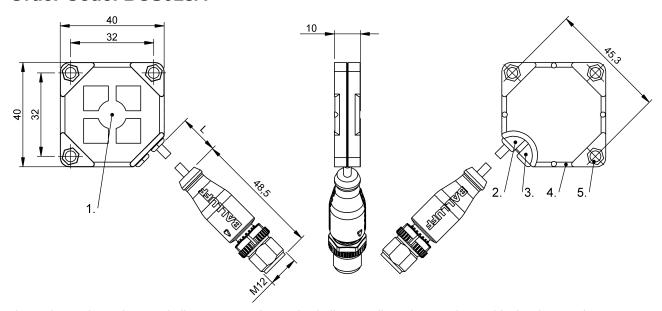
BCS Q40BBAA-PSICFHC-EP00,3-GS04 Order Code: BCS018A

BALLUFF



1) Sensing surface, 2) Power indicator green, 3) Function indicator yellow, 4) Fastening: Cable tie, 5) Fastening: screw 3xM3











Basic features

Additional features	Electrically conductive media
	Foam and residue compensation
Approval/Conformity	CE
	cULus
	EAC
	WEEE
	IO-Link
Basic standard	IEC 60947-5-2
Scope of delivery	Installation guide
Sensitivity	teachable depending on media
Series	Q40

Display/Operation

Function indicator	yes
Power indicator	yes

Electrical connection

Cable diameter D	3.00 mm
Cable length L	0.3 m
Conductor cross-section	0.14 mm ²
Connection	M12x1-Male, 3-pin
Electrical version	3-wire
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.22 μF
No-load current lo max. at Ue	12.0 mA
Operating voltage Ub	1030 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	200 ms
Ripple max. (% of Ue)	10 %
Switching frequency	10 Hz
Utilization category	DC -13
Voltage drop static max.	2.0 V

Environmental conditions

Ambient temperature	-2080 °C
IP rating	IP67

Functional safety

MTTF (4	0 °C)	69 a

IO-Link

IO-Link Profil IDs	0x0001 SSP0
IO-Link function classes	0x8000 Device Identification
	0x8001 Binary Data Channel
	0x8002 Process Data Variables
	0x8003 Device Diagnosis
	0x8004 Teach Commands
Supported IO-Link Profiles	Legacy Smart Sensor Profile

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Interface

Switching output PNP normally open (NO)

Programmable

Material

Cover materialPBTHousing materialPBTMaterial jacketPURMaterial sensing surfacePBT

Mechanical data

Dimension 40 x 40 x 10 mm

Installation flush with container outer wall

Size Block style

Remarks

Note for using in standard applications with aqueous media: The Smart Level sensors are factory adjusted for standard applications. With this setting the Smart Level sensors can be used without further adjustment for detecting aqueous media through glass or plastic walls. The factory setting can automatically mask glass or plastic walls (approx. 0.5 mm to 6 mm) and compensate for foam, moisture and dirt buildup inside and outside the container. Special applications: The Smart Level sensors can also be used with aqueous media in previously unsolvable and critical applications such as through glass or plastic walls thicker than 6 mm. Here the user can change the factory setting.

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

