

1) Housing, 2) Sensing surface, 3) Cover, 4) Potentiometer, 5) Function indicator yellow, 6) Power indicator green









Basic	feati	ires

Daoio reatareo	
Additional features	Electrically conductive media
	Foam and residue compensation
Approval/Conformity	CE
	UKCA
	WEEE
	cULus
Basic standard	IEC 60947-5-2
Scope of delivery	Nut + O-ring Ø10x2
	Screwdriver
	Short guide
Sensitivity	media-dependent, adjustable
Series	S44
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 ²
Number of conductors	3
Polarity reversal protected	no

Electrical data

Load capacitance max. at Ue	10 μF
No-load current lo max. at Ue	12 mA
Operating voltage Ub	1030 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	50 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	100 ms
Ripple max. (% of Ue)	10 %
Switching frequency	5 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions

Subject to change without notice: 234714

Ambient temperature	-5105 °C, UL approval valid up to 85 °C
Contamination scale	3
IP rating	IP67, sensing surface: IP68 10 bar
Functional safety	
MTTF (40 °C)	135 a
Interface	
Switching output	PNP/NPN NO/NC codable

Protection against device mix-ups

Short-circuit protection

yes

BCS S44KK01-GPCFAG-EP02 Order Code: BCS010L



Material

Cover material PA
Housing material PEEK
Material jacket PUR
Material sensing surface PEEK

Mechanical data

 Dimension
 Ø 12 x 62.5 mm

 Installation
 non-flush

 Size
 M12x1

 Thread (A)
 M12x1

 Tightening torque
 1.5 Nm

Remarks

NO/NC function depends on the polarity.

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. The factory setting can compensate for foam, moisture and dirt buildup. Special applications: The sensors with Smart Level FSA technology can also be used with aqueous media in previously unsolvable and critical applications. Here the user can change the factory setting.

The push-pull switching outputs must not be connected in parallel.

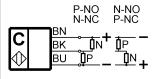
The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything.

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.

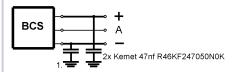
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Wiring Diagrams (Schematic)



Installation remarks



1) Machine GND