



1) Sensing surface, 2) Housing, 3) Cover, 4) LED function indicator



Basic features

Additional features	Electrically conductive media Foam and residue compensation
Approval/Conformity	CE UKCA WEEE cULus
Basic standard	IEC 60947-5-2
Scope of delivery	Installation guide
Sensitivity	teachable depending on media
Series	S04

Display/Operation

Function indicator	yes
Power indicator	no
Setting	Teachable

Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Number of pins	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.33 µF
No-load current I_o max. at Ue	17.0 mA
Operating voltage U_b	12...30 VDC
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	50 mA
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	200 ms
Ripple max. (% of U_e)	10 %
Switching frequency	5 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	-40...85 °C
Contamination scale	3
IP rating	IP68, IP69K at connector exit
Media temperature max.	105 °C

Functional safety

MTTF (40 °C)	94 a
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Interface

Switching output	PNP normally closed (NC)
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Material

Cover material	1.4404 stainless steel
Housing material	1.4404 stainless steel
Material sensing surface	PEEK

Mechanical data

Dimension	Ø 30 x 96 mm
Installation	non-flush
Pressure rating max.	16 bar
Size	D30.0
Thread (A)	G 1/2"
Tightening torque	20...25 Nm

Remarks

For full calibration connect input DI to L+ for 2...7 seconds. For empty calibration connect to L+ for 7..12 seconds.
 Input DI can be used for teaching the switching point. In normal operation input DI should be connected continuously to L-.
 Suitable for all media except aggressive oils
 We explicitly point out that the product is not suitable for food contact and hygienic use
 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.

Connector Drawings



Wiring Diagrams (Schematic)

