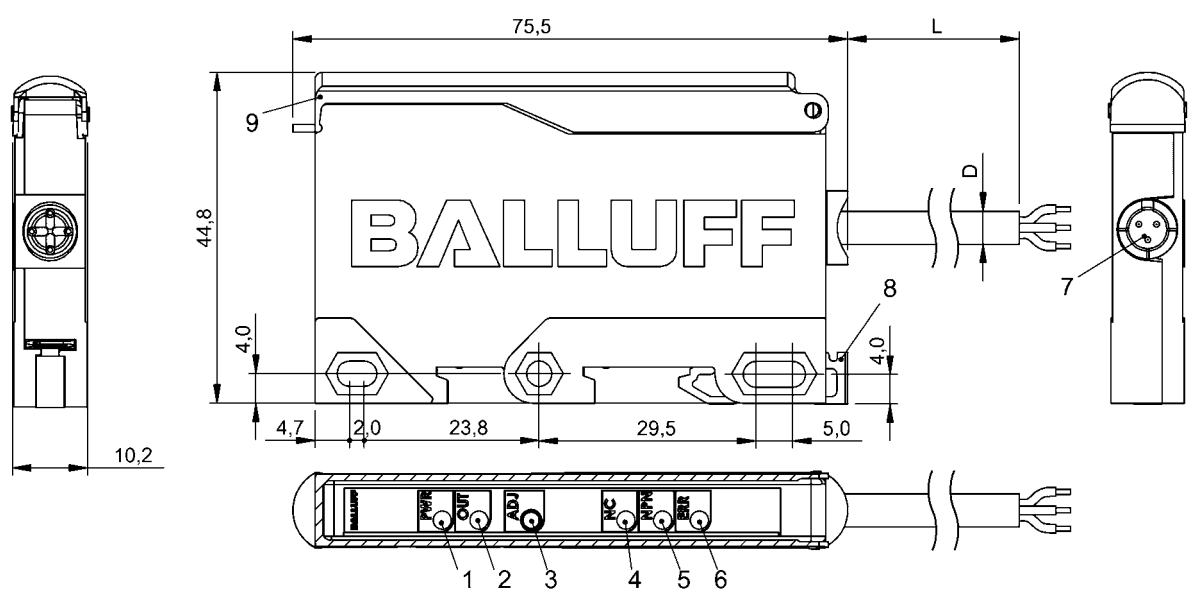


Capacitive Sensors  
BAE SA-CS-025-YP-BP02  
Order Code: BAE00KH



1) LED Power, 2) LED function indicator, 3) Sn, 4) LED N.C. function active, 5) Switching stage NPN, active, 6) LED Error, 7) Plug connection sensor, 8) DIN rail mount 35mm, 9) Flap



Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Series	BAE

Display/Operation

Adjuster	Trimmer potentiometer
Function indicator	yes
Power indicator	yes
Setting	Sensitivity (Sn)

Electrical connection

Cable diameter D	4.50 mm
Cable length L	2 m
Conductor cross-section	0.25 mm <sup>2</sup>
Number of conductors	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at U <sub>e</sub>	0.33 µF
No-load current I <sub>o</sub> max. at U <sub>e</sub>	25 mA
Operating voltage U <sub>b</sub>	12...30 VDC
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub>	50 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Ready delay t <sub>v</sub> max.	200 ms
Residual current I <sub>r</sub> max.	10 µA
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop U <sub>d</sub> max. at I <sub>e</sub>	2 V

Environmental conditions

Ambient temperature	-10...70 °C
IP rating	IP40

Functional safety

MTTF (40 °C)	405 a
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Interface

Switching output	PNP/NPN NO/NC programmable
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Material		Mechanical data	
Cover cap material	PA	Dimension	10.5 x 45 x 75.5 mm
Cover material	PBT	Mounting part	Screw M3
Housing material	PBT		DIN EN-50022 rail 35 mm
Material jacket	PUR		DIN EN-50045 rail 15 mm

**Remarks**

Please observe EMC-conformal cable routing. All measuring and norm vales in the data sheet are referenced to 2 m single-ended cordset.  
max. load current: 50mA with UL approval, <50 to 100mA possible, but without UL approval  
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

