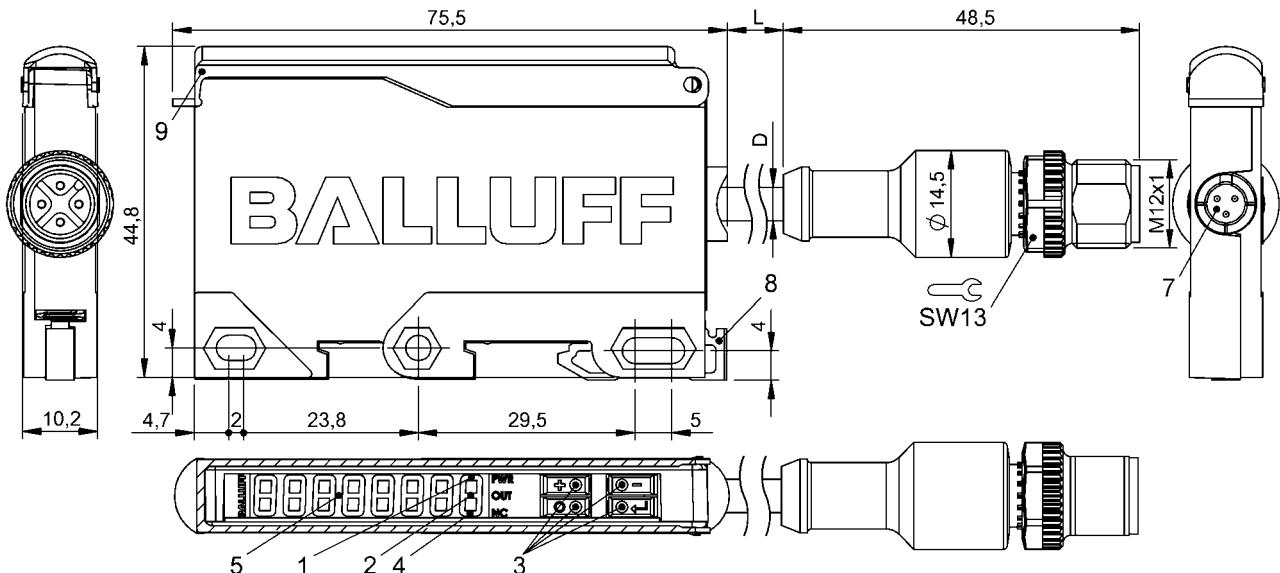


Capacitive Sensors

BAE SA-CS-026-YP-BP00.3-GS04

Order Code: BAE00LA

BALLUFF



1) LED Power, 2) LED function indicator, 3) 4x operating keys, 4) LED N.C. function active, 5) 7x seven-segment display, 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

Display/Operation

Adjuster	Key (4x)
Function indicator	yes
Power indicator	yes
Setting	Sensitivity (Sn) Time function on/off Switching or analog Teaching switchpoints Various switching modes Dynamic function External teach function

Electrical connection

Cable diameter D	4.50 mm
Cable length L	0.3 m
Connection	M12x1
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.33 μ F
Load resistance RL max. (Analog I)	400 ohms
Load resistance RL min. (Analog V)	1 kOhm
No-load current I ₀ max. at Ue	25 mA
Operating voltage U _b	15...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
Residual current I _r max.	10 μ A
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop U _d max. at I _e	2 V

Environmental conditions

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

Functional safety

MTTF (40 °C)	252 a
Interface	
Analog output	Analog, voltage/Analog, current 0...10 V/4...20 mA
Switching output	PNP/NPN NO/NC programmable
Time function	On/off delay time programmable

Material

Cover cap material	PA
Cover material	PBT
Housing material	PBT
Material jacket	PUR

Mechanical data

Dimension	10.5 x 45 x 75.5 mm
Mounting part	DIN EN-50045 rail 15 mm DIN EN-50022 rail 35 mm
	Screw M3

Remarks

Please observe EMC-conformal cable routing. All measuring and norm values 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 connection to the connector must use a listed cable assembly (CYJV) with a minimum value of 80°C
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

