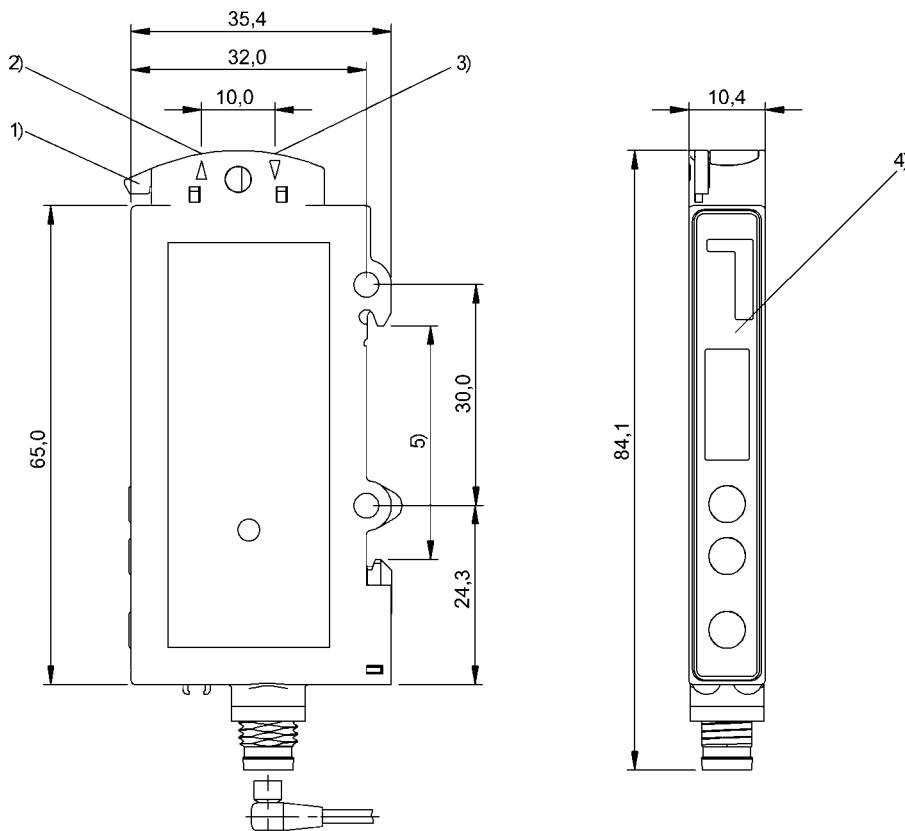


Photoelectric Sensors
BFB 75K-002-P-S75
Order Code: BFB0006

BALLUFF



1) Fiber clamp, 2) Receiver, 3) Emitter, 4) Display and control panel, 5) For DIN rail 35mm



Basic features

Approval/Conformity	cULus CE WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Fiber optic device
Series	75K
Style	Square Straight connection

Display/Operation

Adjuster	Key (3x)
Display	Output function- LED yellow LED green: Power Setup mode active - LED red Function selected - LED red Switching function NC - LED red Switching point - LCD Signal strength - LCD Special mode active - LED red Key disable active: LED red Time function active: LED red

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Setting	LCD read direction Time function Factory setting (Reset) Mode normal/fine/fast/far Duration of single pulse Rated switching distance (Sn), 2 values Display on/off Delay time Key disable on/off Light-on/dark-on Sensitivity (Sn)
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Electrical connection

Connection	Connector, M8x1-Male, 4-pin
Fiber optics connection	Ø 2.2 mm
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Input function	Teach Sn Key disable on/off
No-load current I_0 max. at U_e	25 mA
Operating voltage U_b	10...30 VDC
Protection class	II
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Ripple max. (% of U_e)	10 %
Switching frequency	8000 Hz /1000 Hz/125 Hz
Turn-off delay t_{off} max.	0.06/0.5/8 ms
Turn-on delay t_{on} max.	0.06/0.5/8 ms
Voltage drop U_d max. at I_e	2.4 V

Remarks

Order accessories separately.
For additional information, refer to user's guide.
The sensor is functional again after the overload has been eliminated.
Do not press key using a pointed tool.
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.

Environmental conditions

Ambient temperature	-20...60 °C
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP64

Functional safety

MTTF (40 °C)	182 a
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Interface

Duration of time function	1/5/.../2000 ms (15 steps)
Switching output	PNP normally open/normally closed (NO/NC)
Time function	switch-off delay Turn-on delay Single pulse

Material

Housing material	ABS
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Mechanical data

Dimension	10.4 x 35.4 x 84 mm
Mounting part	Screw M3 DIN rail 35 mm

Optical features

Ambient light max.	5000 Lux
Light type	LED, red light
Principle of optical operation	depends on fiber optics
Switching function, optical	Light/dark switching
Wave length	660 nm

Range/Distance

Hysteresis H max. (% of S_r)	10.0 %
Range	depends on fiber optics

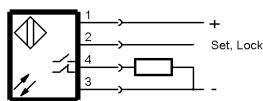
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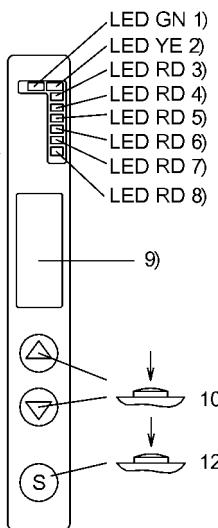
Connector Drawings



Wiring Diagrams



Help Views



- 1) Output function
- 2) Operating voltage
- 3) Setup mode active
- 4) Key disable active
- 5) Switching function NC
- 6) Teach-in active
- 7) Time function active
- 8) Special mode active
- 9) Signal strength/switchpoint
- 10) Function/mode select
- 11) Confirm teach-in/selection

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Opto Symbols

