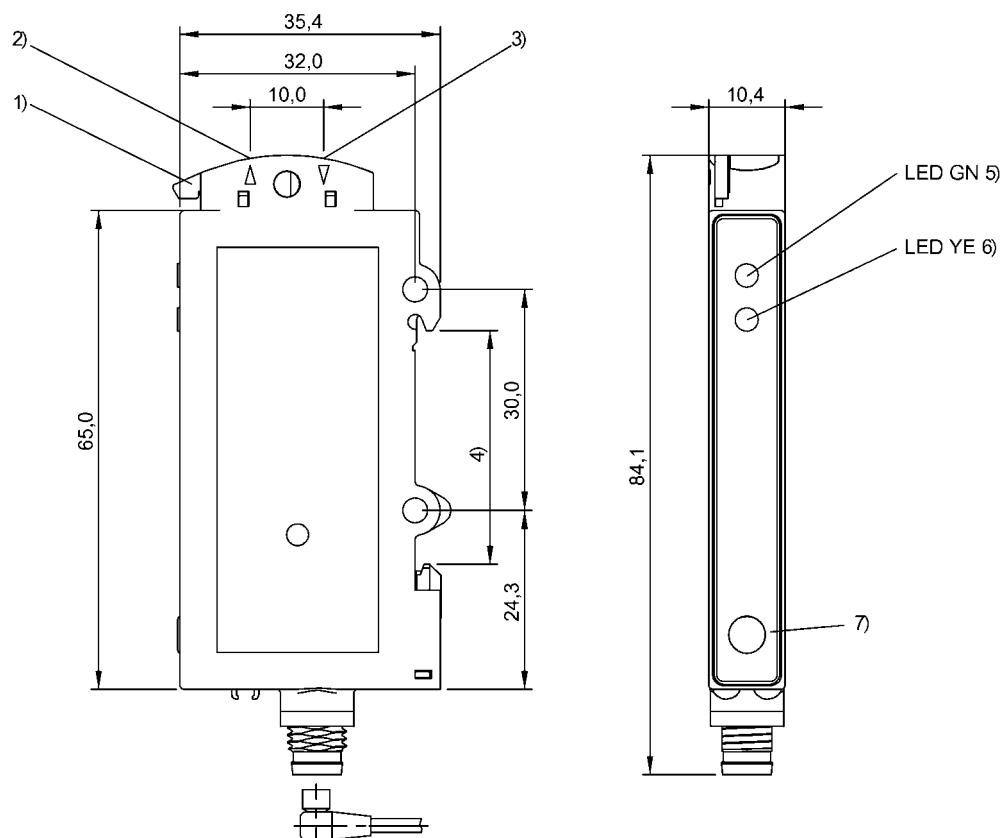


Photoelectric Sensors
BFB 75K-001-N-S75
Order Code: BFB0002

BALLUFF



1) Fiber clamp, 2) Emitter, 3) Receiver, 4) For DIN rail 35mm, 5) stability, 6) Output function, 7) Sn



Basic features

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

Display/Operation

Adjuster	button
Display	Output function- LED yellow Stability - LED green
Setting	Light-on/dark-on Factory setting (Reset) Sensitivity (Sn)

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	Same function as button Key disable on/off
No-load current I_0 max. at U_e	20 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	1500 Hz
Turn-off delay t_{off} max.	0.33 ms
Turn-on delay t_{on} max.	0.33 ms
Voltage drop U_d max. at I_e	2.4 V

Environmental conditions

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

Interface

Switching output	NPN normally open/normally closed (NO/NC)
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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 Sr)	10.0 %
Range	depends on fiber optics

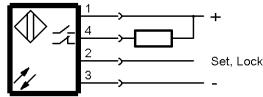
Remarks

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.

Connector Drawings



Wiring Diagrams



Opto Symbols

