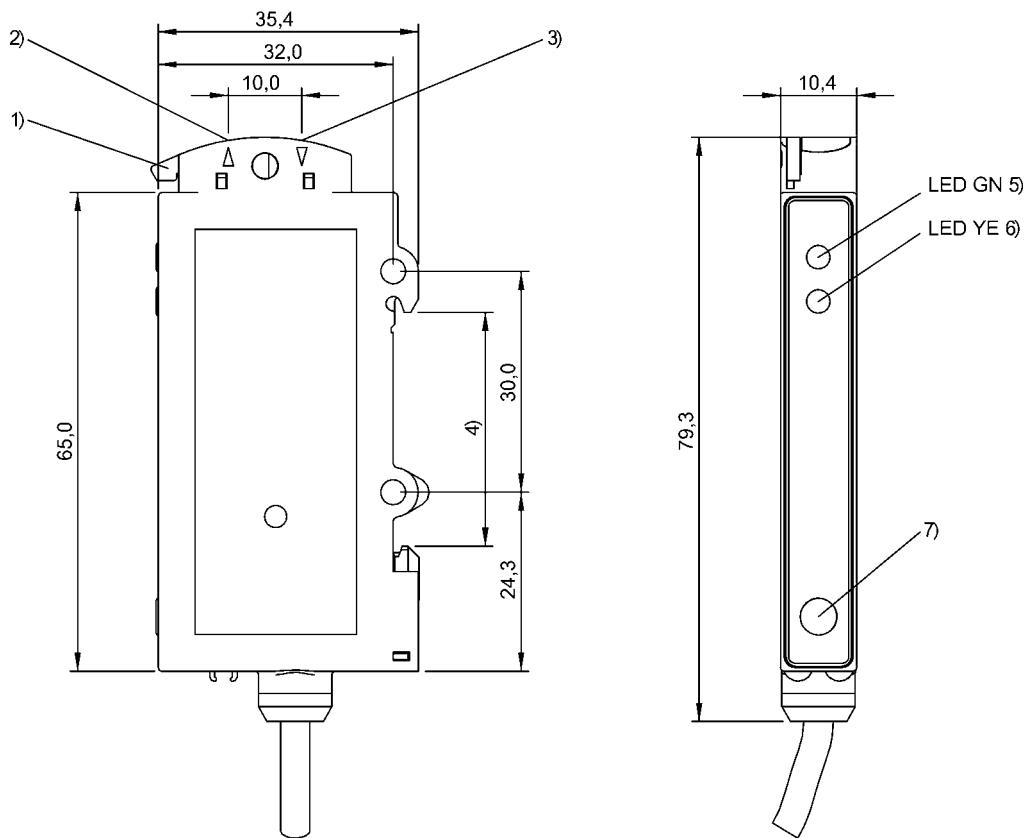


Photoelectric Sensors
BFB 75K-001-N-02
Order Code: BFB0001

BALLUFF



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



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

Electrical connection

Cable diameter D	4.00 mm
Cable length L	2 m
Conductor cross-section	0.14 mm ²
Connection	Cable, 2.00 m, PVC
Fiber optics connection	Ø 2.2 mm
Number of conductors	4
Polarity reversal protected	yes
Short-circuit protection	yes

Display/Operation

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

Electrical data

Input function	Key disable on/off Same function as button
No-load current Io max. at Ue	20 mA
Operating voltage Ub	10...30 VDC
Protection class	II
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	10 %
Switching frequency	1500 Hz
Turn-off delay $toff$ max.	0.33 ms
Turn-on delay ton max.	0.33 ms
Voltage drop Ud max. at le	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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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.

Material

Housing material	ABS
Material jacket	PVC

Mechanical data

Dimension	10.4 x 35.4 x 79.3 mm
Mounting part	Screw M3 DIN rail 35 mm

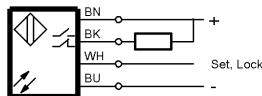
Optical features

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

Wiring Diagrams



Opto Symbols

