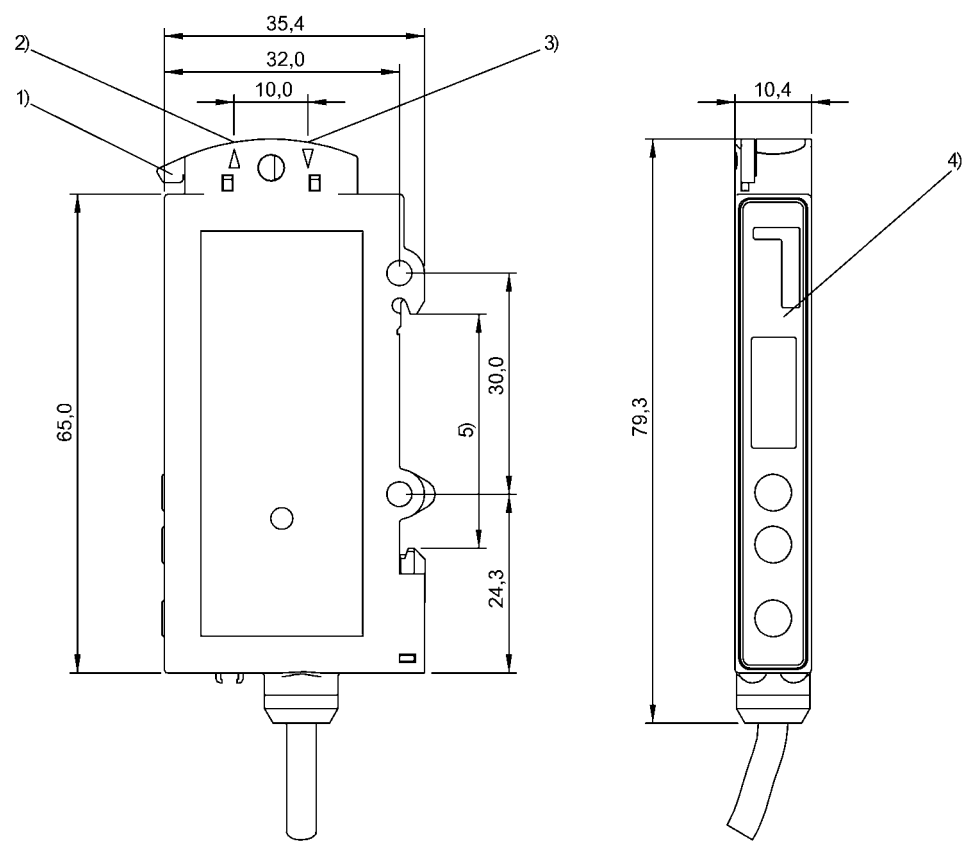
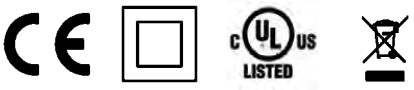


Photoelectric Sensors
BFB 75K-003-N-02
Order Code: BFB0007



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 Teach-in active - LED red Setup mode active - 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	Duration of single pulse
	Mode normal/fine/fast/far
	LCD read direction
	Time function
	Factory setting (Reset)
	Rated switching distance (Sn), 2 values
	Display on/off
	Sensitivity (Sn)
	Light-on/dark-on
	Key disable on/off
	Delay time

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

Electrical data

Input function	Teach Sn
	Key disable on/off
No-load current I _{o 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
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

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

Environmental conditions

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

Interface

Analog output	Analog, voltage 0...10 V
Duration of time function	1/5/.../2000 ms (15 steps)
Switching output	NPN normally open/normally closed (NO/NC)
Time function	switch-off delay
	Turn-on delay
	Single pulse

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

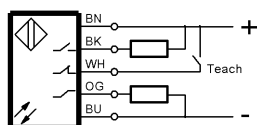
Optical features

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 S _r)	10.0 %
Range	depends on fiber optics

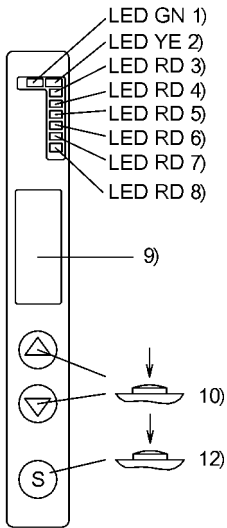
Wiring Diagrams



Photoelectric Sensors
BFB 75K-003-N-02
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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

Opto Symbols

