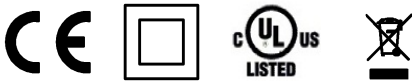


1) Fiber clamp, 2) Emitter, 3) Receiver, 4) For DIN rail 35mm, 5) stability, 6) Output function, 7) Sn



**Basic features**

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

**Electrical connection**

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

**Display/Operation**

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

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



**Electrical data**

<b>Input function</b>	Key disable on/off Same function as button
<b>No-load current I<sub>o max.</sub> at U<sub>e</sub></b>	20 mA
<b>Operating voltage U<sub>b</sub></b>	10...30 VDC
<b>Protection class</b>	II
<b>Rated insulation voltage U<sub>i</sub></b>	75 V DC
<b>Rated operating current I<sub>e</sub></b>	100 mA
<b>Rated operating voltage U<sub>e DC</sub></b>	24 V
<b>Ripple max. (% of U<sub>e</sub>)</b>	10 %
<b>Switching frequency</b>	1500 Hz
<b>Turn-off delay t<sub>off max.</sub></b>	0.33 ms
<b>Turn-on delay t<sub>on max.</sub></b>	0.33 ms
<b>Voltage drop U<sub>d max.</sub> at I<sub>e</sub></b>	2.4 V

**Environmental conditions**

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

**Interface**

<b>Switching output</b>	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**

<b>Housing material</b>	ABS
<b>Material jacket</b>	PVC

**Mechanical data**

<b>Dimension</b>	10.4 x 35.4 x 79.3 mm
<b>Mounting part</b>	Screw M3 DIN rail 35 mm

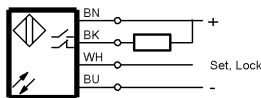
**Optical features**

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

**Range/Distance**

<b>Hysteresis H max. (% of S<sub>r</sub>)</b>	10.0 %
<b>Range</b>	depends on fiber optics

**Wiring Diagrams**



**Opto Symbols**

