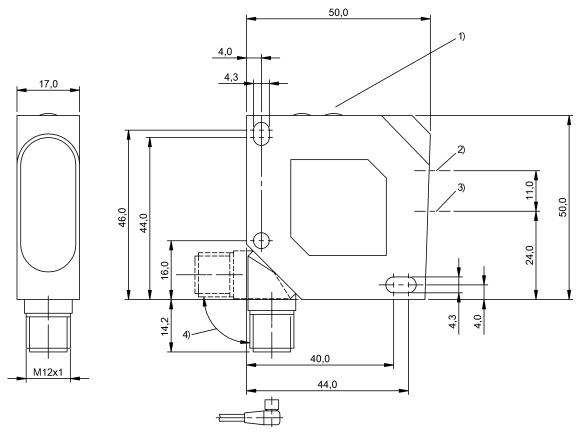
## Photoelectric Sensors BFS 26K-PS-L02-S115-C Order Code: BFS0002





1) Display and control panel, 2) Optical axis emitter, 3) Optical axis receiver, 4) rotatable 270°





#### **Basic features**

Approval/Conformity Basic standard Principle of operation Series Style

#### CE cULus EAC WEEE IEC 60947-5-2 Color sensor 26K Square Connection can be rotated

## **Display/Operation**

Adjuster	Key (2x)
Display	Output function- LED yellow (3x)
	Ready - LED green
	Tolerance level: LED red (3x)
Setting	Factory setting (Reset)
	Time function on/off
	Color tolerance level
	Color channel (output)
	Color (switchpoint)
	Color teach-in mode/Color scan
	Normal mode/ET
Electrical connection	

Connection	Connector, M12x1-Male, 8-pin
Polarity reversal protected	yes
Short-circuit protection	yes

## Photoelectric Sensors BFS 26K-PS-L02-S115-C Order Code: BFS0002

## **Electrical data**

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Electrical data		Material	
Input function	Teach color (switchpoint) Key disable on/off Emitter on/off	Housing material Material sensing surface	ABS PMMA
No-load current lo max. at Ue40 mAOperating voltage Ub1228 VDC		Mechanical data	
Protection class	II	Dimension	17 x 50 x 50 mm
Rated insulation voltage Ui	75 V DC	Mounting	Screw M4
Rated operating current le	100 mA		
Rated operating voltage Ue DC	24 V	Optical features	
Ready delay tv max.	300 ms	Ambient light max.	5000 Lux
Ripple max. (% of Ue)	10 %	Beam characteristic	Focused
Switching frequency	500 Hz	Color resolution tolerance	Adjustable in 5 steps
Turn-off delay toff max.	1.0 ms	Light spot size	2 x 2 mm at 22 mm
Turn-on delay ton max.	1.0 ms	Light type	White light
Utilization category Voltage drop Ud max. at le	DC -13 2.4 V	Principle of optical operation	Diffuse sensor, fixed focus
Environmental condition		Output/Interface	
		Duration of time function	50 ms
Ambient temperature	-1055 °C	Supplementary output	Acknowledgment output PNP
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6	Switch function, supplementary	Normally open (NO)
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min	output	
Protection degree	IP67	Switching output	3x PNP normally open (NO)
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#### **Functional safety**

MTTF (40 °C)

Switching output Time function	3x PNP normally open (NO) switch-off delay		
Range/Distance			
Range	1530 mm		
Sensing distance tolerance	±5 mm at 22 mm, tolerance level		

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#### Remarks

Do not press key using a pointed tool.

Order accessories separately.

For additional information, refer to user's guide.

With connector, e.g. BKS-S 138-... total length = switch length +17.5 mm.

Reference object (target): gray card, 100 x 100, 18 % remission, axial approach.

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The sensor is functional again after the overload has been eliminated.

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.

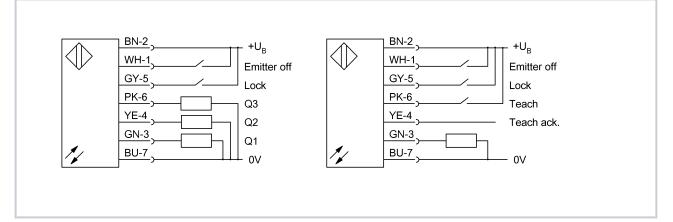
## **Connector Drawings**



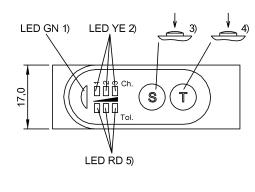
## Photoelectric Sensors BFS 26K-PS-L02-S115-C Order Code: BFS0002



# Wiring Diagrams



**Help Views** 



- 1) Readiness
- 2) Output function
- 3) Confirm teach-in/selection
- 4) Function/mode select
- 5) Tolerance level indicator

# **Opto Symbols**

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