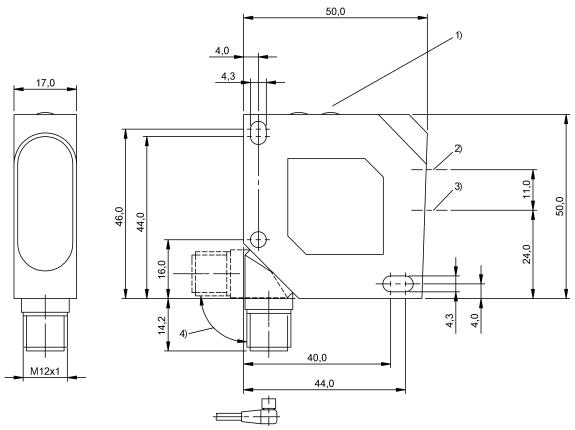
Photoelectric Sensors BFS 26K-PS-L01-S115 Order Code: BFS0001





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	Normal mode/ET	
	Color teach-in mode/Color scan	
	Color (switchpoint)	
	Color channel (output)	
	Color tolerance level	
	Time function on/off	
	Factory setting (Reset)	
Electrical connection		
Connection	Connector, M12x1-Male, 8-pin	
Polarity reversal protected	yes	
Short-circuit protection	yes	

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Electrical data



Interface

Electrical data		Internace	
Input function	Emitter on/off Key disable on/off	Duration of time function Supplementary output	50 ms Acknowledgment output PNP
	Teach color (switchpoint)	Switch function, supplementary	Normally open (NO)
No-load current lo max. at Ue	40 mA	output	
Operating voltage Ub	1228 VDC	Switching output	3x PNP normally open (NO)
Protection class	II	Time function	switch-off delay
Rated insulation voltage Ui	75 V DC		
Rated operating current le	100 mA	Material	
Rated operating voltage Ue DC	24 V		
Ready delay tv max.	300 ms	Housing material	ABS
Ripple max. (% of Ue)	10 %	Material sensing surface	PMMA
Switching frequency	500 Hz		
urn-off delay toff max.	1.0 ms	Mechanical data	
īurn-on delay ton max.	1.0 ms	Dimension	17 x 50 x 50 mm
Itilization category	DC -13	Mounting part	Screw M4
oltage drop Ud max. at le	2.4 V		
		Optical features	
Environmental conditior	IS	Ambient light max.	5000 Lux
Ambient temperature	-1055 °C	Beam characteristic	Focused
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6	Color resolution tolerance	Adjustable in 5 steps

Functional safety

EN 60068-2-6, Vibration

MTTF (40 °C)

IP rating

-10...55 °C Half-sinus, 30 g_n, 11 ms, 3x6 55 Hz, amplitude 1 mm, 3x30 min IP67

Ambient light max. 5000 Lux Beam characteristic Focused Color resolution tolerance Adjustable in 5 steps Light spot size Ø 4 mm at 22 mm Light type White light Principle of optical operation Diffuse sensor, fixed focus Range/Distance 12...32 mm Sensing distance tolerance ±6 mm at 22 mm, tolerance level

3

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.

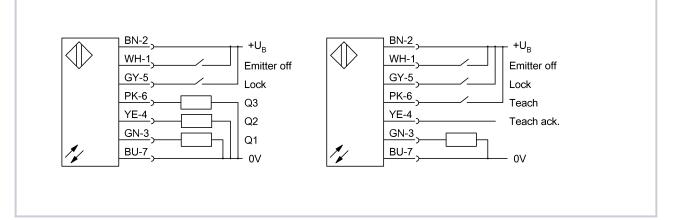
Connector Drawings



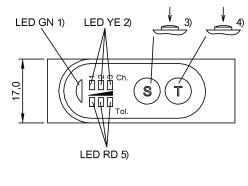
Photoelectric Sensors BFS 26K-PS-L01-S115 Order Code: BFS0001



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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