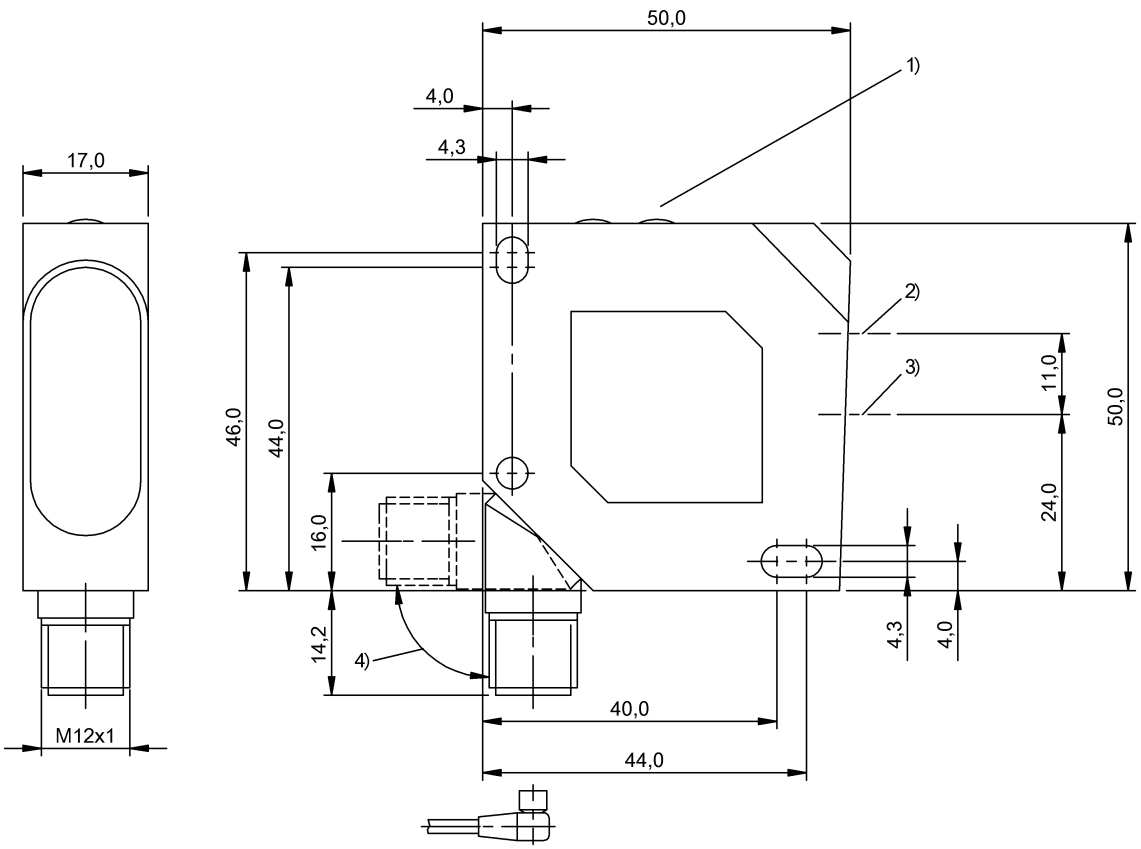
BALLUFF

BFS 26K-GI-L04-S92
BFS000F



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

CE

Display/Operation

Adjuster	Key (2x)
Setting	Teach color (max. 5) Teach color range (max. 5) Run/setup mode Color tolerance level Time function on/off Factory setting (Reset) Intensity tolerance level Normally open/Normally closed

Electrical connection

Connection	M12x1-Connector
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.1 µF
MTTF (40 °C)	7 a
No-load current Io max. at Ue	40 mA
Operating voltage Ub	18…30 VDC
Rated insulation voltage Ui	50 V DC
Rated operating current Ie DC	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	300 ms
Switching frequency	500 Hz (SIO-Mode)
Turn-off delay toff max.	1.0 ms
Turn-on delay ton max.	1.0
Utilization category	DC -13
Voltage drop Ud max. at Ie	2.4 V

Environmental conditions

Ambient temperature	-10…55 °C
Protection class	II
Protection type IEC 60529	IP67

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	10 a

General data

Approval/Conformity	CE
Basic standard	IEC 60947-5-2
Series	26K

BFS 26K-GI-L04-S92
BFS000F

Style	Square Connection can be rotated

Material

Housing material	ABS
Material sensing surface	PMMA

Mechanical data

Dimension	17 x 50 x 50 mm
Fastening detail	Screw M4

Optical data

Ambient light max.	5000 Lux
Beam characteristic	Focused
Color resolution tolerance	Adjustable in 4 steps
Light type	White light
Wave length	400…700 nm

Output/Interface

Duration of time function	50 ms
Input function	Teach color (switchpoint) Trigger
Interface	IO-Link
Switching output	PNP/NPN Normally open/ Normally closed (NO/NC)
Time function	switch-off delay

Range/Distance

Measuring range	12…32 mm
Range	12…32 mm
Ripple max. (% of Ue)	10 %
Sensing distance tolerance	±6 mm at 22 mm, Tolerance C3 and I2

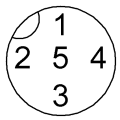
Remarks

Order accessories separately.
Do not press key using a pointed tool.
The sensor is functional again after the overload has been eliminated.
Reference object (target): gray card, 100 x 100, 18 % remission, axial approach.
All sensor functions can be set and read through the IO-Link interface (COM mode). The colors/color ranges can be read individually through IO-Link.
For additional information, refer to user's guide.

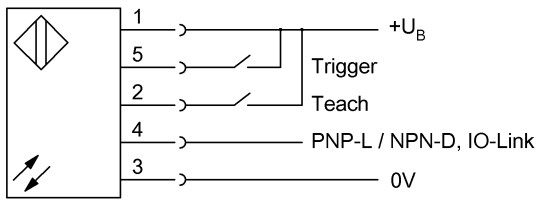
For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Connector view

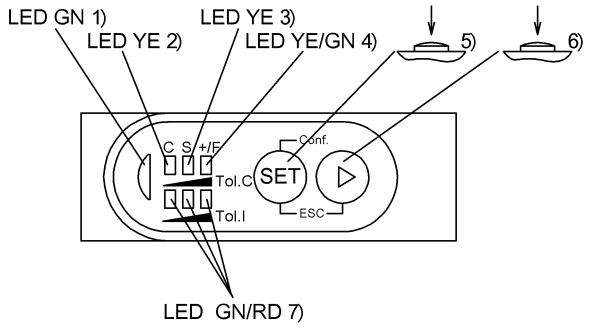


Wiring Diagram



BFS 26K-GI-L04-S92
BFS000F

Additional View



1) Operating voltage 2) Output funct./Teach-in C 3) Teach S (color range) 4) Teach C+/S+ /special funct. 5. Setting, Teach 6) Advance 7) Tolerance level/Special funct.

Symbols for Optoelectronic Sensors

