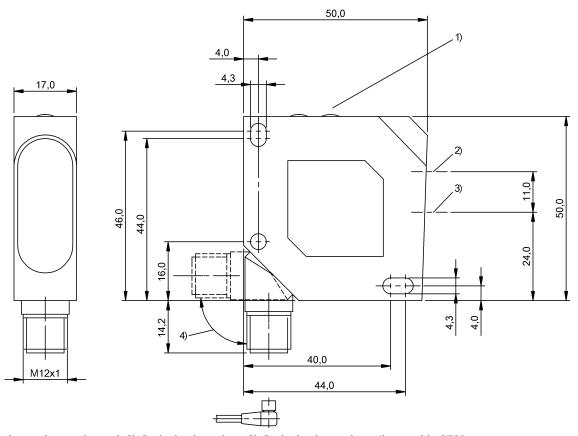
BALLUFF



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





TOTAL TOTAL





Basic features

Approval/Conformity CE cULus EAC WEEE Basic standard IEC 60947-5-2 Principle of operation Color sensor 26K Series Style Square Connection can be rotated

Display/Operation

Adjuster Key (2x) Output function- LED yellow (3x) Display 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

BFS 26K-PS-L03-S115-C Order Code: BFS0003



Electrical data

Emitter on/off Input function Key disable on/off Teach color (switchpoint) No-load current lo max. at Ue 40 mA Operating voltage Ub 12...28 VDC Protection class Ш Rated insulation voltage Ui 75 V DC Rated operating current le 100 mA Rated operating voltage Ue DC 24 V Ready delay tv max. 300 ms Ripple max. (% of Ue) 10 % Switching frequency 500 Hz Turn-off delay toff max. 1.0 ms Turn-on delay ton max. 1.0 ms Utilization category DC -13

Environmental conditions

Voltage drop Ud max. at le

Ambient temperature -10...55 °C EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms, 3x6 EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min **Protection degree Functional safety** MTTF (40 °C) 7 a

2.4 V

Material

Housing material ABS Material sensing surface PMMA

Mechanical data

Dimension 17 x 50 x 50 mm Mounting Screw M4

Optical features

Ambient light max. 5000 Lux Beam characteristic Focused Color resolution tolerance Adjustable in 5 steps Light spot size 1 x 5 mm at 22 mm White light Light type Principle of optical operation Diffuse sensor, fixed focus

Output/Interface

Duration of time function 50 ms Acknowledgment output PNP Supplementary output Normally open (NO) Switch function, supplementary output Switching output 3x PNP normally open (NO) Time function switch-off delay

Range/Distance

Range 18...22 mm ±2 mm at 22 mm, tolerance level Sensing distance tolerance

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.

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

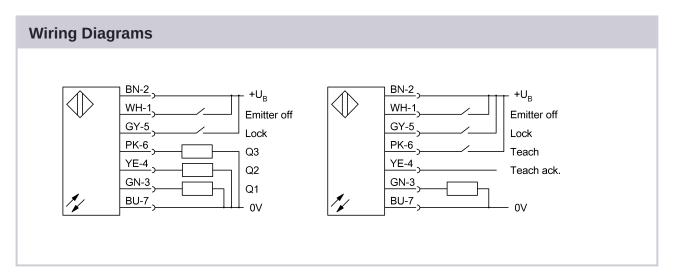
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

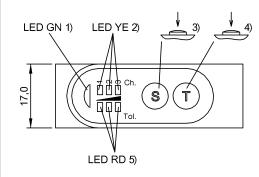
Connector Drawings







Help Views



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

Opto Symbols

