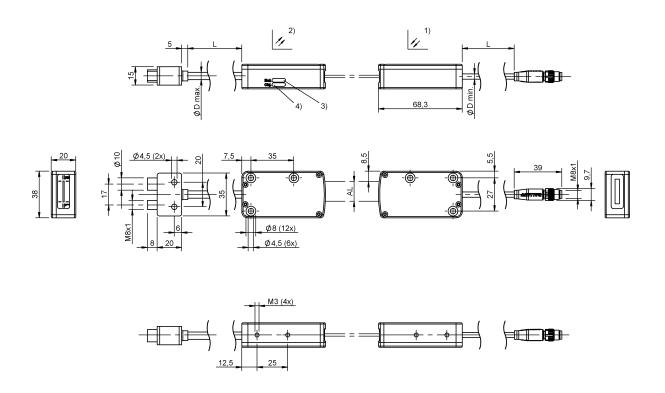
## BALLUFF



1) Emitter, 2) Receiver, 3) Status indicator, 4) Indicator object

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Approval/Conformity CE WEEE EAC Basic standard IEC 60947-5-2 Principle of operation Light array Scope of delivery Mounting bracket (2x), BAM0362 Connection cable (emitter receiver) Manual Series Style Square Straight connection

#### Display/Operation

Subject to change without notice: 267388

Adjuster Configuration via IO-Link Display LED green: Power Communication - Green LED, flashing Object in meas. field - LED orange Setting Normalize CCD signal Teach in objects (max. 6) Factory setting (Reset) Meas.field limits Object mode (digital values) Measurement mode (2 independent measurement values) Switching tol. ± 0.1...16 mm Setting block Blanking Signal scaling

Counter mode

#### **Photoelectric Sensors**

### BLA 16C-002-00,25-S75 Order Code: BLA0007



#### **Electrical connection**

Cable diameter D4.5...6 mmCable length L250 mm

**Connection** Cable with connector, M8x1-Male,

4-pin, 250 mm, PUR

Connection 2 M8x1-Female, 4-pin
Connection 3 M8x1-Male, 4-pin
Contact, surface protection Gold plated

Polarity reversal protected yes
Protection against device mix-ups yes
Short-circuit protection yes

#### **Electrical data**

No-load current Io max. at Ue

Operating voltage Ub

Rated insulation voltage Ui

Rated operating voltage Ue DC

Ready delay tv max.

Ripple max. (% of Ue)

100 mA

18...30 VDC

75 V DC

24 V

300 ms

10 %

#### **Environmental conditions**

Ambient temperature 5...55 °C

**EN 60068-2-27, Shock** Half-sinus, 30 g<sub>n</sub>, 11 ms, 3x6

**EN 60068-2-6, Vibration** 30 g, 10...2000 Hz

IP rating IP67

#### **Functional safety**

MTTF (40 °C) 253 a

#### Material

Housing material Aluminum, Anodized

Housing material, surface protectionAnodizedMaterial jacketPURMaterial sensing surfaceGlassSurface protectionAnodized

#### Mechanical data

Dimension38 x 20 x 68.3 mmMounting partScrew M4

#### **Optical features**

Beam characteristic Collimated light strip, width 20

mm

Laser class per IEC 60825-1

 Light type
 Laser red light

 Principle of optical operation
 Through-beam sensor

Pulse frequency 0.01...1 kHz
Pulse power Pp max. 0.3 mW

Smallest part typ. Wire  $\emptyset$  0.4 mm at R0  $\leq$  0.25m

Wire  $\emptyset$  0.7 mm at R0  $\leq$  1m Wire  $\emptyset$  1.0 mm at R0  $\leq$  2m

Special optical feature CCD technology

Wave length 650 nm

#### Output/Interface

Baud rate COM2 (38.4 kBaud)
Interface IO-Link 1.1

#### Range/Distance

**Accuracy** ±20 μm (R0 ≤0.25m)

50 μm (R0 ≤1m) 100 μm (R0 ≤2m)

 Active length AL 1
 16 mm

 Range
 0...2 m

Rated operating distance Sn 2 mRepeat accuracy  $10 \mu \text{m} \text{ (R0} \le 0.25 \text{ m)}$ 

20  $\mu$ m (R0  $\leq$  1 m) 70  $\mu$ m (R0  $\leq$  2 m)

Resolution ≤ 0.01 mm

#### Remarks

Reference object (target): Steel cylinder diameter 8.0 mm.

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

Connection cable (emitter to receiver) and mounting bracket BAM0362 included, order other accessories separately.

For additional information, refer to user's guide.

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.



