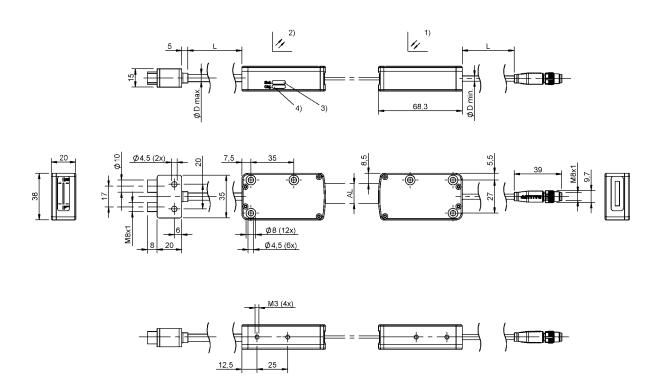
BVLLNEE



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









D		-		
Kа	SIL	fea	ŤΗ	rac
$_{\rm Du}$	010	100	··u	

Basic features	
Approval/Conformity	CE
	UKCA
	WEEE
	cULus
Basic standard	IEC 60947-5-2
Principle of operation	Light array
Scope of delivery	Mounting bracket (2x), BAM0362 Connection cable (emitter - receiver) Manual
Series	С
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. ± 0.116 mm
	Setting block
	Blanking
	Signal scaling

Counter mode

Photoelectric Sensors

BLA 16C-002-00.25-S75 Order Code: BLA0007



Electrical connection

Cable diameter D 4.5...6 mm Cable length L 250 mm

Cable with connector, M8x1-Male, Connection

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 ves Protection against device mix-ups yes Short-circuit protection ves

Electrical data

No-load current lo max. at Ue 100 mA 18...30 VDC Operating voltage Ub 75 V DC Rated insulation voltage Ui Rated operating voltage Ue DC 24 V Ready delay tv max. 300 ms 10 % Ripple max. (% of Ue)

Environmental conditions

Ambient temperature 5...55 °C

EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms, 3x6 EN 60068-2-6, Vibration 30 g, 10...2000 Hz

IP rating IP67

Functional safety

MTTF (40 °C) 253 a

10-Link

IO-Link Profil IDs N/A

Interface

COM2 (38.4 kBaud) Baud rate Interface 10-Link 1.1

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.

Material

Housing material Aluminium, Anodized

Housing material, surface protection Anodized PLIR Material jacket Material sensing surface Glass Surface protection Anodized

Mechanical data

Dimension 38 x 20 x 68.3 mm Screw M4 Mounting part

Optical features

Ambient light max. 5000 Lux Average power Po max. 150 μW

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 0.3 mW Pulse power Pp max.

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

Range/Distance

Resolution

Accuracy ±20 µm (R0 ≤0.25m)

50 μm (R0 ≤1m) 100 μm (R0 ≤2m)

Active length AL 1 16 mm Range $0.2 \,\mathrm{m}$ Rated operating distance Sn 2 m

 $10 \, \mu m \, (R0 \le 0.25 \, m)$ Repeat accuracy

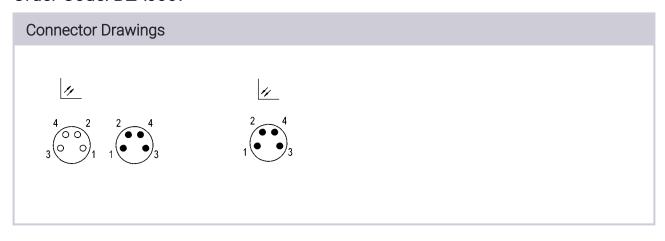
 $20 \, \mu m \, (R0 \le 1 \, m)$ $70 \, \mu m \, (R0 \le 2 \, m)$

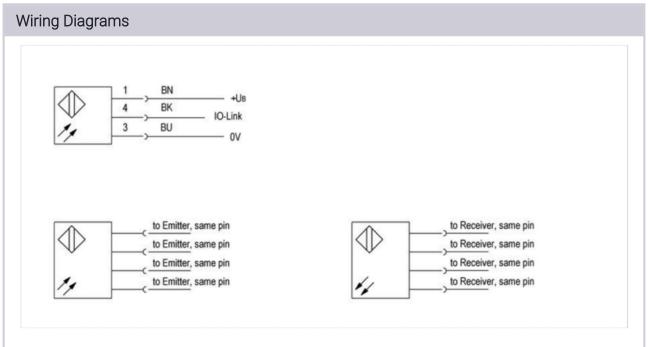
≤ 0.01 mm

Photoelectric Sensors



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









eCl@ss 9.1: 27-27-08-01