

1) Emitter, 2) Display and control panel, 3) Receiver

Characteristic data

Operating voltage	15...30 V DC
Connection	Connector, M12x1-B04, M12x1-S115, M12x1-S04, Aluminium
Short-circuit protected	yes
Protected against polarity reversal	yes
Enclosure Type per IEC 60529	IP65
Indicator	Analog meas.val. - OLED displ. Measuring mode - OLED display Object mode - OLED display Object visualiz. - OLED display Meas.field limits - OLED disp. Object number - OLED display Switching tol. - OLED display Object in meas. field - LED OG Power - LED GN Setting menu - OLED display CCD signal - OLED display Key (4x)

Adjuster

Setting

- Meas. mode (analog output)
- Object mode (digital output)
- Meas.field limits
- Factory setting (reset)
- Key disable on/off
- Output active/inactive
- Output curve rise/fall
- Analog output U/I
- Teach in objects (max. 6)
- Switching tol. ± 0.1...2 m
- Read dir. of the OLED display
- Contrast of the OLED display
- OLED display on/off
- Display mode of the OLED disp.
- Normalize CCD signal
- Calibrate analog outputs
- Align via CCD signal disp.

Optical data

- Principle of optical operation
- Light type
- Wavelength
- Laser class per IEC 60825-1

- Through-beam
- Laser red light
- 650 nm
- 1

BLA 50A-001-S115
Ordering code: BLA0001

Light Array
Series A

PNP (3x), NO, 0...10 V / 4...20 mA
Laser red light, Laserklasse 1
DC, direct current

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Average power Po max. < 390 µW (IEC 60825-1)
 Optical special feature CCD technology
 Active length AL 50 mm

Electrical data

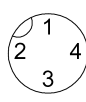
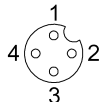
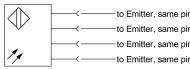
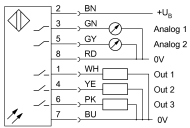
Rated operating voltage Ue DC 24,0 V
 Effective operating current Ie 100 mA
 Rated insulation voltage Ui 75 V DC
 Ripple max. (% of Ue) 10 %
 Switching output PNP (3x)
 Switching function NO
 No-load current max. Io at Ue 100 mA
 Analogue output Analog U/I (2x)
 Value range analogue 0...10 V / 4...20 mA

Mechanical data

Operating range Ro 0...2 m
 Range Sn Sn = 2 m
 Resolution 0,01 mm
 Connector type M12x1-B04, M12x1-S115, M12x1-S04
 Cable jacket material Aluminium
 Sensing surface material Glass
 Oberflächenschutz Anodized
 Mounting type Screw M4
 Ambient temperature 5...55 °C

Basic data

Basic standard IEC 60947-5-2



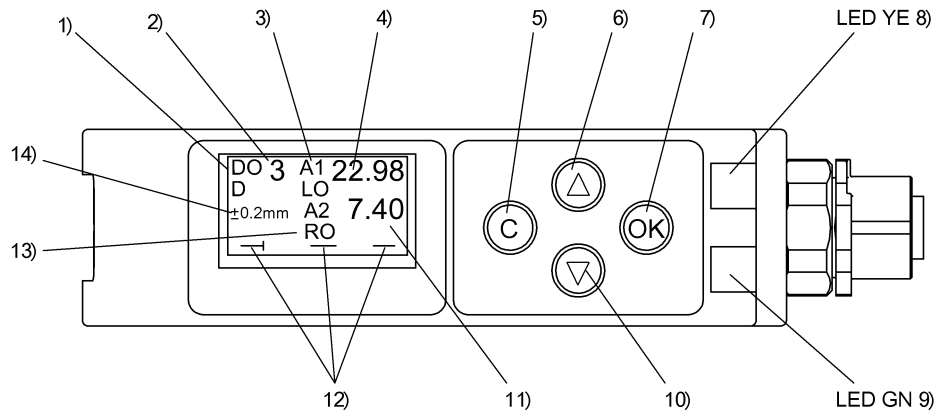
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- 1) Object mode digital outputs
- 1) Object mode digital outputs
- 2) No. of identified object
- 2) No. of identified object
- 3) Meas. mode analog output 1
- 3) Meas. mode analog output 1
- 4) Meas. value analog output 1
- 4) Meas. value analog output 1
- 5) Discard selection, back
- 5) Discard selection, back
- 6) scroll / increase value
- 6) scroll / increase value
- 7) Menu, confirm selection
- 7) Menu, confirm selection
- 8) Object in meas. field
- 8) Object in meas. field
- 9) Operating voltage
- 9) Operating voltage
- 10) scroll / decrease value
- 10) scroll / decrease value
- 11) Meas.value analog output 2
- 11) Meas.value analog output 2
- 12) Vis. meas.field and object
- 12) Vis. meas.field and object
- 13) Meas. mode analog output 2
- 13) Meas. mode analog output 2
- 14) Switching tol. dig. output
- 14) Switching tol. dig. output