

1) LED function indicator, 2) LED function indicator, 3) Teach-In button, 4) Encoder



Basic features

Application	Positioning
Approval/Conformity	CE UKCA cURus EAC WEEE
Basic standard	IEC 60947-5-2 IEC 60947-5-7

Display/Operation

Power indicator	yes
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Electrical connection

Connection	M8x1-Male, 4-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load resistance RL	2000...500 Ohm
Load resistance RL max.	500 Ohm
Load resistance RL min.	2000 Ohm
No-load current I_o max. at U_e	30 mA
Operating voltage U_b	16...30 VDC
Rated insulation voltage U_i	75 V DC
Rated operating voltage U_e DC	24 V
Ripple max. (% of U_e)	10 %
Slope I	0.12 mA/mm
Slope U	0.08 V/mm

Environmental conditions

Ambient temperature	-25...85 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Inductive Sensors
BIP ED2-B133-03-S75
Order Code: BIP000R



Functional safety

MTTF (40 °C) 200 a

Interface

Analog output Analog, voltage 0...10 V Analog, current 4...20 mA
Output characteristic Adjustable
Output current at SI max. 20 mA
Output current at SI min. 4 mA
Output current at Se 12 mA
Output voltage at SI max. 10 V
Output voltage at SI min. 0 V
Output voltage at Se 5 V

Material

Housing material PBT
Material sensing surface PBT

Mechanical data

Dimension 149.5 x 21 x 22 mm
Tightening torque max. 3 Nm

Range/Distance

Linearity range SI 0...133 mm
Measuring range 0...133 mm
Non-linearity max. ±400 µm
Repeat accuracy per BWN ±80 µm
Temperature drift max. from end value ±1.5 %

Remarks

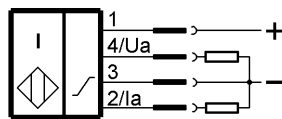
Please refer to manual.
 The working range is teachable with the aid of the scanner.
 Specification applies to recommended target BAM TG-XE-001 D=2 mm
 For more information about MTTF and B10d see MTTF / B10d Certificate

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.

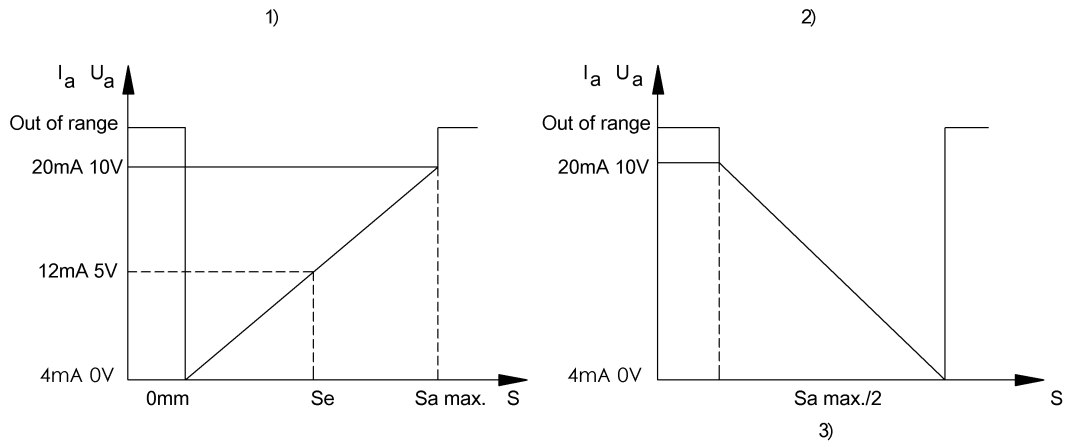
Connector Drawings



Wiring Diagrams



Technical Drawings



- 1) Standard characteristic curve
- 2) Reduced measuring range
- 3) Minimum width $S_{a \max.}/2$