

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



**Basic features**

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

**Display/Operation**

<b>Power indicator</b>	yes
------------------------	-----

**Electrical connection**

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

**Electrical data**

<b>Load resistance RL</b>	2000...500 Ohm
<b>Load resistance RL max.</b>	500 Ohm
<b>Load resistance RL min.</b>	2000 Ohm
<b>No-load current I<sub>o</sub> max. at U<sub>e</sub></b>	30 mA
<b>Operating voltage U<sub>b</sub></b>	16...30 VDC
<b>Rated insulation voltage U<sub>i</sub></b>	75 V DC
<b>Rated operating voltage U<sub>e</sub> DC</b>	24 V
<b>Ripple max. (% of U<sub>e</sub>)</b>	10 %
<b>Slope I</b>	0.33 mA/mm
<b>Slope U</b>	0.21 V/mm

**Environmental conditions**

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

Inductive Sensors  
**BIP ED2-B048-03-S75**  
**Order Code: BIP000M**



**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** 64 x 21 x 22 mm  
**Tightening torque max.** 3 Nm

**Range/Distance**

**Linearity range SI** 0...48 mm  
**Measuring range** 0...48 mm  
**Non-linearity max.** ±400 µm  
**Repeat accuracy per BWN** ±80 µm  
**Temperature drift max. from end value** ±1.5 %

**Remarks**

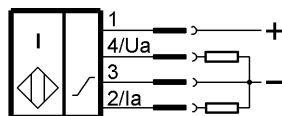
Please refer to manual.  
 The working range is teachable with the aid of the scanner.  
 Specification applies to recommended target BAM TG-XE-001 D=2 mm  
 For more information about MTTF and B10d see MTTF / B10d Certificate

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

