

1) Sensing surface



**Basic features**

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

**Display/Operation**

<b>Function indicator</b>	no
<b>Power indicator</b>	no

**Electrical connection**

<b>Bending radius min., fixed cable</b>	3 x D
<b>Bending radius min., flexible cable</b>	Fixed installation only.
<b>Cable diameter D</b>	3.5 mm
<b>Cable length L</b>	2 m
<b>Conductor cross-section</b>	0.14 mm <sup>2</sup>
<b>Connection type</b>	Cable, 2 m, PUR
<b>Number of conductors</b>	3
<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 min.</b>	2000 Ohm
<b>No-load current I<sub>o</sub> max. at U<sub>e</sub></b>	20 mA
<b>Operating voltage U<sub>b</sub></b>	15...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>Ready delay t<sub>v</sub> max.</b>	300 ms
<b>Ripple max. (% of U<sub>e</sub>)</b>	10 %

**Inductive Sensors**  
**BIP AD2-T017-04-BP02**  
**Order Code: BIP001K**



**Environmental conditions**

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67
Storage temperature	-40...85 °C

**Functional safety**

MTTF (40 °C)	440 a
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**Interface**

Analog output	Analog, voltage 0...10 V
Output characteristic	Adjustable
Output voltage at SI max.	10 V
Output voltage at SI min.	0 V
Output voltage at Se	5 V

**Material**

Cable shield	yes
Housing material	PA
Material jacket	PUR
Material sensing surface	PA

**Mechanical data**

Dimension	30 x 18 x 40.5 mm
Tightening torque max.	0.5 Nm

**Range/Distance**

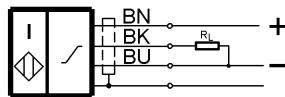
Linearity range SI	0...17 mm
Measuring range	0...17 mm
Non-linearity max.	±250 µm
Repeat accuracy per BWN	±50 µm
Temperature drift max. from end value	±3.0 %

**Remarks**

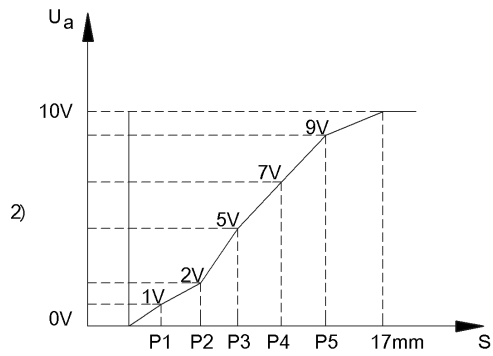
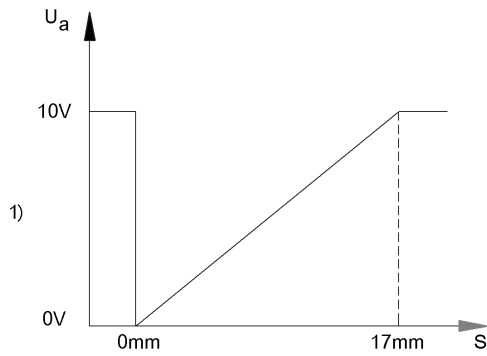
Please refer to manual.  
 Specification applies to recommended target (BAM TG--XE-020)  
 For more information about MTTF and B10d see MTTF / B10d Certificate

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.

**Wiring Diagrams**



## Technical Drawings



- 1) Standard characteristic curve
- 2) Prog. characteristic curve (Ex.)