

1) LED function indicator, 3) Encoder



### Basic features

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

### Display/Operation

Function indicator	Adjustment indicator
Power indicator	no

### Electrical connection

Bending radius min., fixed cable	3 x D
Bending radius min., flexible cable	Fixed installation only.
Cable diameter D	3.50 mm
Cable length L	2 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection type	Cable, 2.00 m, PUR
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Inductive Sensors  
**BIP AD2-T014-01-EB02-505**  
**Order Code: BIP000T**

**BALLUFF**

**Electrical data**

Load resistance $R_L$ min.	2000 Ohm
No-load current $I_0$ max. at $U_e$	20 mA
Operating voltage $U_b$	15...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 $U$	0.71 V/mm

**Environmental conditions**

Ambient temperature	-25...70 °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

**Functional safety**

MTTF (40 °C)	350 a
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**Material**

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

**Mechanical data**

Dimension	35 x 35 x 31 mm
Tightening torque max.	0.5 Nm

**Output/Interface**

Analog output	Analog, voltage 0...10 V
Output characteristic	Adjustable
Output voltage at $S_I$ max.	10 V
Output voltage at $S_I$ min.	0 V
Output voltage at $S_e$	5 V

**Range/Distance**

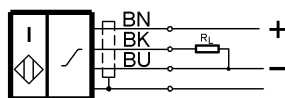
Linearity range $S_I$	0...14 mm
Measuring range	0...14 mm
Non-linearity max.	±250 $\mu$ m
Repeat accuracy per BWN	±80 $\mu$ m
Temperature drift max. from end value	±3.0 %

**Remarks**

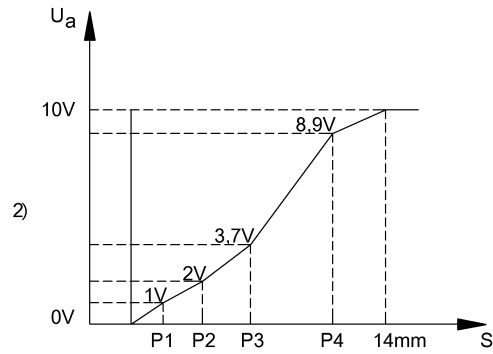
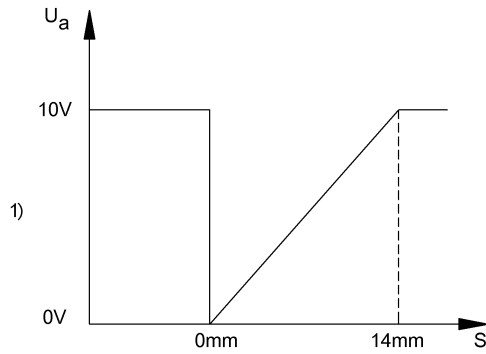
Please refer to manual.  
 Specification applies to the recommended position encoders BAM TG-XE-001 and BAM TG-XE-002 at  $D = 1$  mm  
 The measuring range is teachable using the BAE00T3 programmer.  
 For more information about MTTF and B10d see MTTF / B10d Certificate

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.)