

1) LED function indicator, 3) Encoder



### Basic features

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

### Display/Operation

Function indicator	yes
Power indicator	no

### Electrical connection

Bending radius min., fixed cable	3 x D
Bending radius min., flexible cable	5 x D
Cable diameter D	2.85...3 mm
Cable length L	0.5 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection	M12x1-Male, 3-pin, A-coded
Connection type	Cable with connector, 0.5 m, PUR
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

## Electrical data

Load resistance RL min.	2000 Ohm
No-load current Io max. at Ue	20 mA
Operating voltage Ub	15...30 VDC
Rated insulation voltage Ui	75 V DC
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	10 %
Slope U	1.43 V/mm

## Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 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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## Interface

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

## Material

Cable shield	no
Housing material	PA
Material jacket	PUR
Material sensing surface	PA

## Mechanical data

Dimension	25.5 x 35 x 31 mm
Tightening torque max.	0.5 Nm

## Range/Distance

Linearity range SI	0...7 mm
Measuring range	0...7 mm
Non-linearity max.	±250 µm
Repeat accuracy per BWN	±80 µm
Temperature drift max. from end value	±6.0 %

## Remarks

Please refer to manual.

Specification applies to the recommended position encoders BAM TG-XE-001 and BAM TG-XE-002 at D = 2 mm

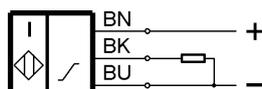
For more information about MTTF and B10d see MTTF / B10d Certificate

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 (Schematic)



## Technical Drawings

