

1) LED function indicator, 3) Encoder



## Basic features

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

## Display/Operation

Function indicator	Adjustment indicator yes
Power indicator	no

## Electrical connection

Bending radius min., fixed cable	3 x D
Bending radius min., flexible cable	Fixed installation only.
Cable diameter D	3.3...3.5 mm
Cable length L	0.15 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection	M12x1-Male, 3-pin, A-coded
Connection type	Cable with connector, 0.15 m, PUR
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

## Electrical data

Load resistance $R_L$ min.	2000 Ohm
No-load current $I_0$ max. at $U_e$	21 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	0.58 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)	250 a
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## 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

## Material

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

## Mechanical data

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

## Range/Distance

Linearity range $S_I$	0...17 mm
Measuring range	0...17 mm
Non-linearity max.	±250 $\mu$ m
Repeat accuracy per BWN	±50 $\mu$ m
Temperature drift max. from end value	±3.0 %

## Remarks

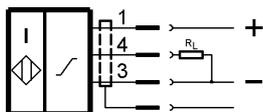
Please refer to manual.  
 Specification applies to the recommended damper BAM TG-XE-020 at  $D = 1$  mm  
 The measuring range is teachable using the BAE00T3 programmer.  
 For more information about MTTF and B10d see MTTF / B10d Certificate

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.

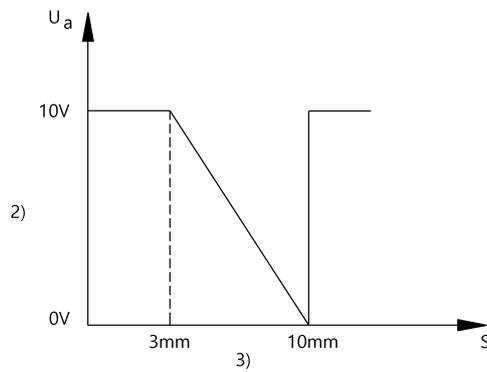
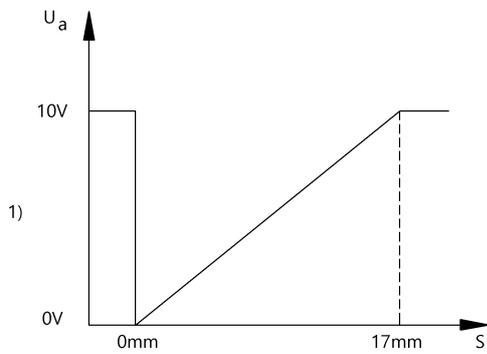
## Connector Drawings



## Wiring Diagrams (Schematic)



## Technical Drawings



- 1) Standard characteristic curve
- 2) Reduced measuring range
- 3) Minimum width 7 mm