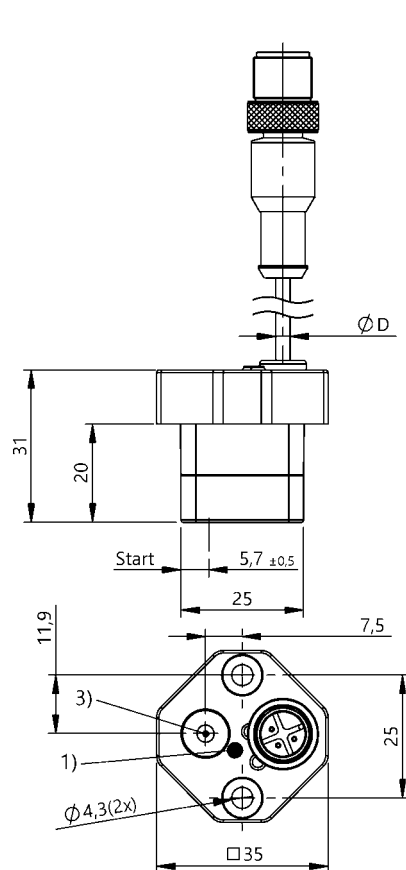
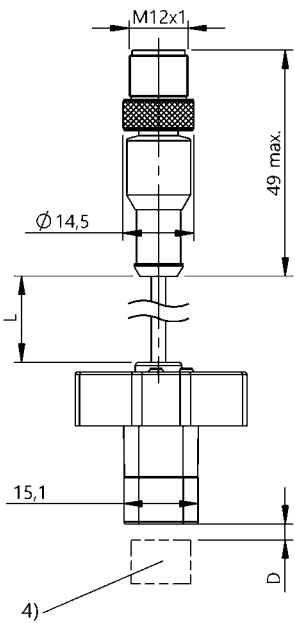




1) LED function indicator, 3) Teach-In button, 4) Encoder



Basic features

Application	Positioning
Approval/Conformity	CE cULus WEEE
Basic standard	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
Cable diameter D	3.3...3.5 mm
Cable length L	200 mm
Conductor cross-section	0.34 mm ²
Connection	M12x1-Male, 3-pin, A-coded
Connection type	Cable with connector, 200 mm, 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	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)	250 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	35 x 35 x 31 mm
Tightening torque max.	0.5 Nm

Range/Distance

Linearity range SI	0...14 mm
Measuring range	0...14 mm
Non-linearity max.	±250 µm
Repeat accuracy per BWN	±80 µm
Temperature drift max. from end value	±3.0 %

Remarks

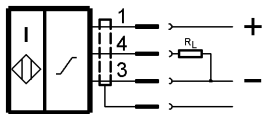
Please refer to manual.
The working range is teachable with the aid of the scanner.
Specification applies to the recommended position encoders BAM TG-XE-001 and BAM TG-XE-002 at $D = 2$ mm
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

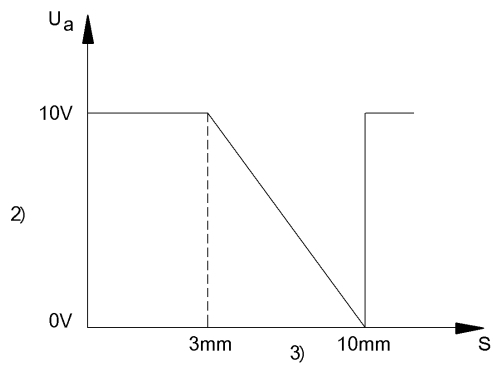
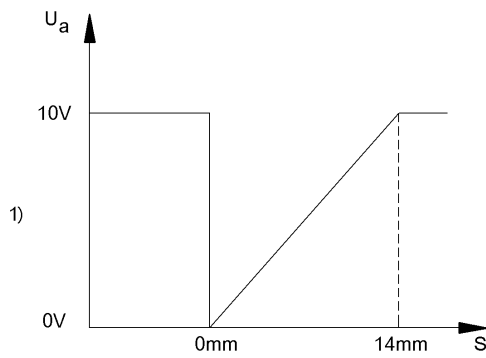
Connector Drawings



Wiring Diagrams



Technical Drawings



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