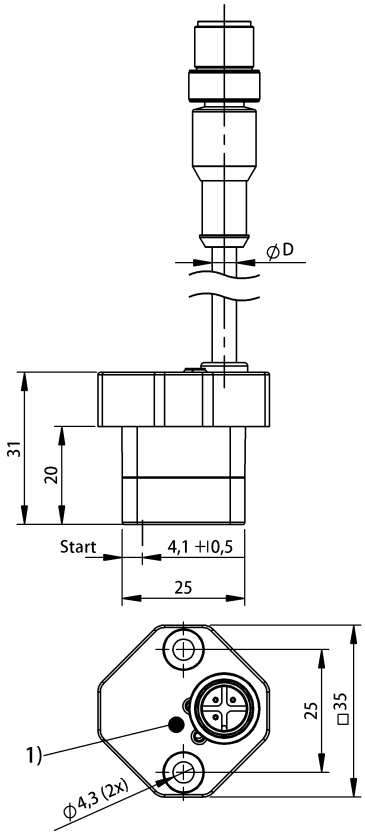
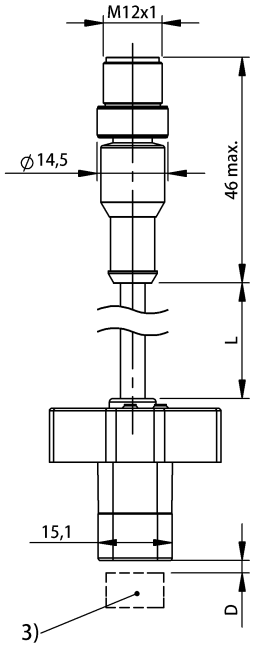
Inductive Sensors

BIP AD2-T017-01-EB00,5-S4-505
Order Code: BIP002K





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

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	0.5 m
Conductor cross-section	0.14 mm²
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

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Electrical data

Load resistance RL min.	2000 Ohm
No-load current Io max. at Ue	21 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	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)	350 a

Interface

Analog output	Analog, voltage 0...10 V
Output characteristic	Adjustable
Output voltage at Sl max.	10 V
Output voltage at Sl 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 Sl	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 %

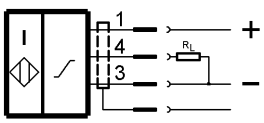
Remarks

Please refer to manual.
Specification applies to 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

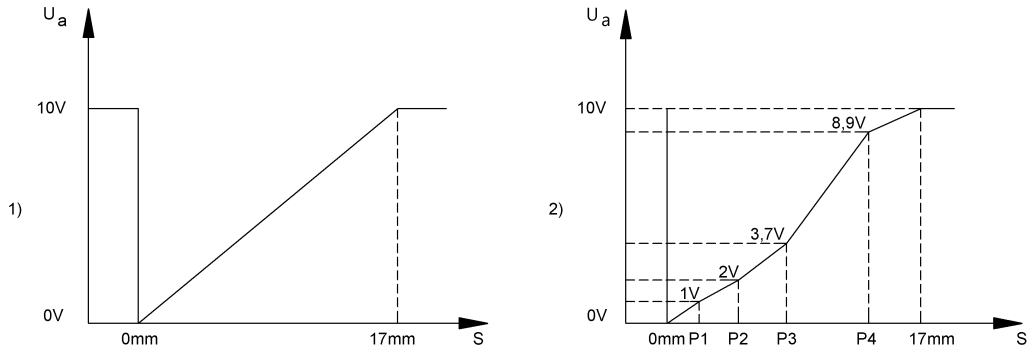
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings

Wiring Diagrams (Schematic)



Technical Drawings



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