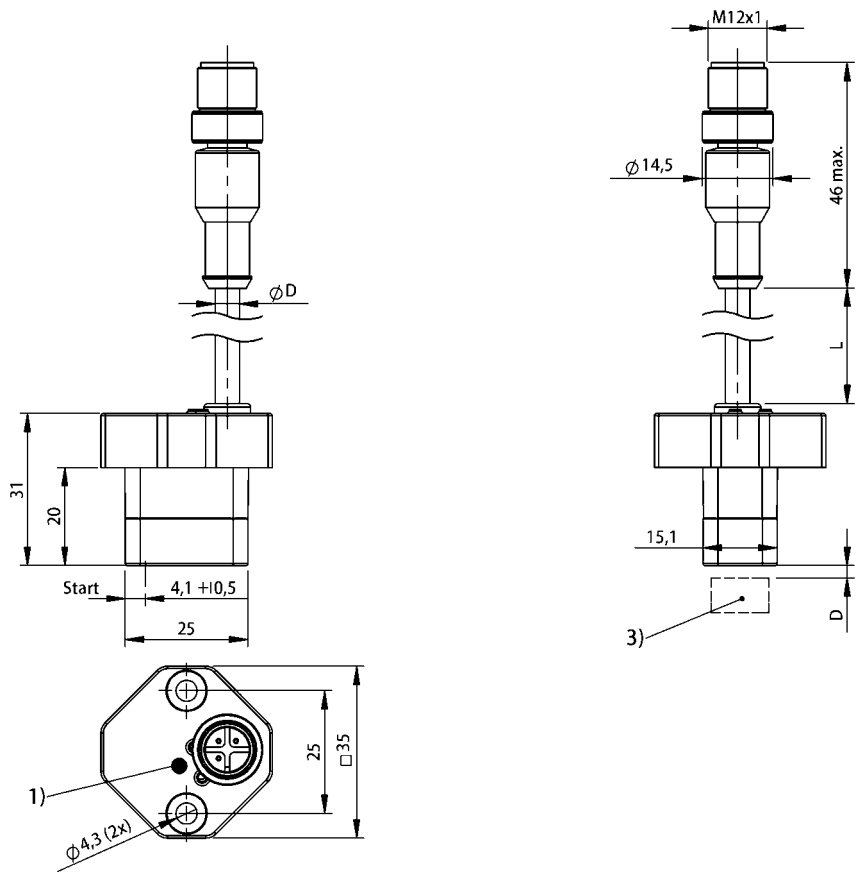


Inductive Sensors
BIP LD2-T017-01-EP00,5-S4
Order Code: BIP001Y



1) LED function indicator, 3) Encoder



Basic features

Application	Positioning
Approval/Conformity	CE UKCA cULus 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	5 x D
Cable diameter D	2.85...3 mm
Cable length L	0.5 m
Conductor cross-section	0.14 mm ²
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

No-load current I _o max. at U _e	20 mA
Operating voltage U _b	18...30 VDC
Rated insulation voltage U _i	75 V DC
Rated operating voltage U _e DC	24 V
Ripple max. (% of U _e)	10 %

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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 2 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)	200 a
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IO-Link

IO-Link Profil IDs	0x000A SSP3.1 0x4000 Identification and Diagnosis
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Interface

Interface	IO-Link 1.1
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Material

Cable shield	no
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...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

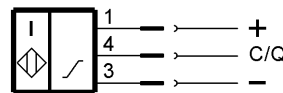
Please refer to manual.
Specification applies to the recommended damper BAM TG-XE-020 at D = 1 mm
The measuring range is teachable via IO-Link.
For more information about MTTF and B10d see MTTF / B10d Certificate

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



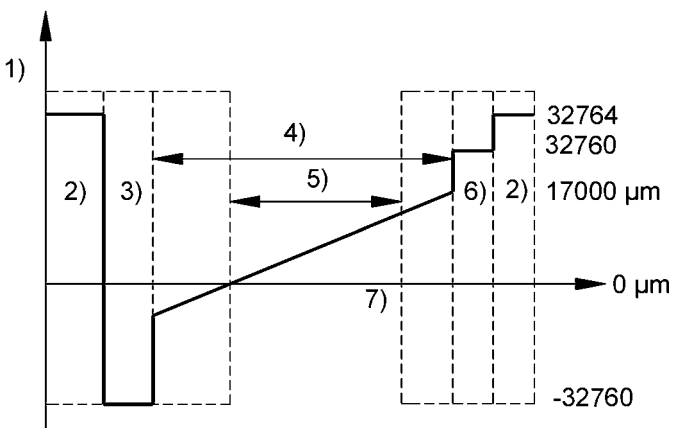
Inductive Sensors

BIP LD2-T017-01-EP00,5-S4

Order Code: BIP001Y

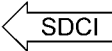
BALLUFF

Technical Drawings



- 1) Measured value
- 2) No position encoder
- 3) Out of Range (negativ)
- 4) Detection range
- 5) Measuring range
- 6) Out of Range (positiv)
- 7) Position

Help Views

		16																8								0							
Bit offset 	Transmission direction	Integer T(16)																Integer T(8)								8 bit							
		Measurement value																Scale								Vendor specific							
		Byte 3								Byte 2								Byte 1								Byte 0							
		7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Desription		Measurment value																Scale								System error OoR no data OoR out of range nicht unterstützt SSC4 SSC3 SSC2 SSC1							
Type		INT 16 (signed integer)																INT8								BOOL							
Value		Nominlalwerte sind 0...17000 Out of range -32760...+32760 No measurement = 32764																-6 (µm)								0							