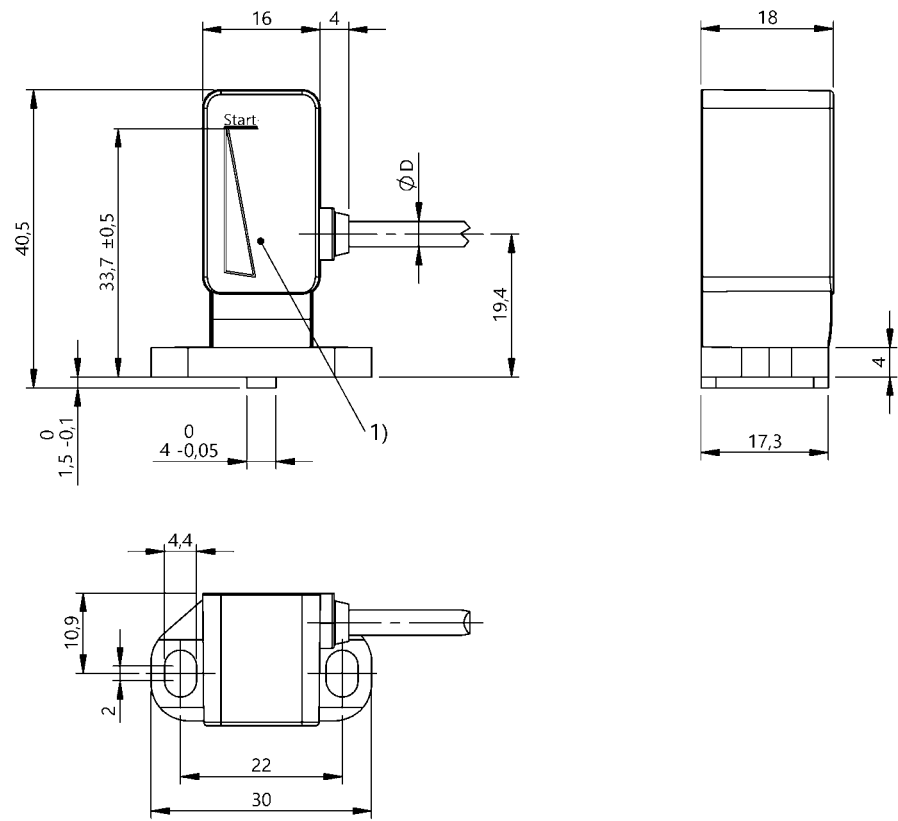


Inductive Sensors
BIP CD2-T017-04-BP02
Order Code: BIP001L



1) Sensing surface



Basic features	
Application	Positioning
Approval/Conformity	CE
	UKCA
	cURus
	WEEE
Basic standard	IEC 60947-5-2
	IEC 60947-5-7
Display/Operation	
Function indicator	no
Power indicator	no

Electrical connection	
Bending radius min., fixed cable	3 x D
Bending radius min., flexible cable	Fixed installation only.
Cable diameter D	3.5 mm
Cable length L	2 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 2 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 max.	500 Ohm
No-load current Io max. at Ue	15 mA
Operating voltage Ub	15...30 VDC
Rated insulation voltage Ui	75 V DC
Rated operating voltage Ue DC	24 V
Ready delay tv max.	300 ms
Ripple max. (% of Ue)	10 %

Environmental conditions

Ambient temperature	-25...70 °C, Temperature drift is between -10...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
Storage temperature	-40...85 °C

Functional safety

MTTF (40 °C)	440 a
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Interface

Analog output	Analog, current 4...20 mA
Output characteristic	Adjustable
Output current at SI max.	20 mA
Output current at SI min.	4 mA
Output current at Se	12 mA

Remarks

Please refer to manual.
Specification applies to recommended target (BAM TG--XE-020)
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.

Material

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

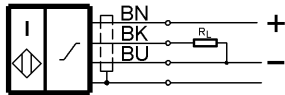
Mechanical data

Dimension	30 x 18 x 40.5 mm
Mounting length	22 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 %

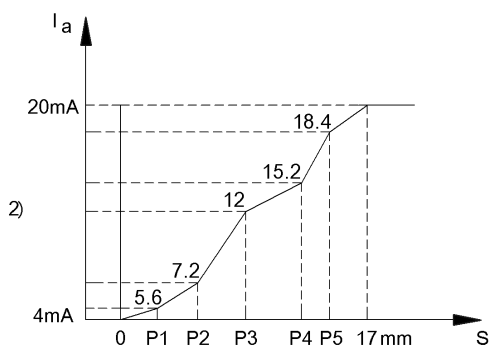
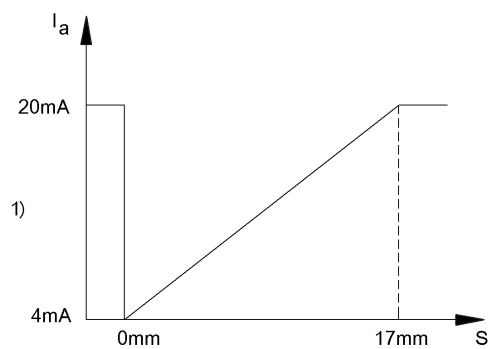
Wiring Diagrams



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Technical Drawings



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