

1) LED Power, 2) 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	yes
Power indicator	yes

## Electrical connection

Connection	M8x1-Male, 4-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

## Electrical data

No-load current $I_0$ max. at $U_e$	35 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 $U_e$ )	15 %

## Environmental conditions

Ambient temperature	-25...85 °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	-25...85 °C

## Functional safety

MTTF (40 °C)	230 a
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Inductive Sensors  
**BIP LD2-T133-03-S75**  
Order Code: BIP001F



### IO-Link

IO-Link Profil IDs N/A

### Interface

Interface IO-Link 1.1

### Material

Housing material PBT  
Material sensing surface PBT

### Mechanical data

Dimension 149.5 x 21 x 22 mm  
Tightening torque max. 3 Nm

### Range/Distance

Linearity range SI 0...133 mm  
Measuring range 0...133 mm  
Non-linearity max.  $\pm 400 \mu\text{m}$   
Repeat accuracy per BWN  $\pm 80 \mu\text{m}$   
Temperature drift max. from end value  $\pm 1.5 \%$

### Remarks

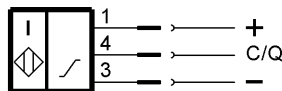
Please refer to manual.  
Specification applies to recommended target BAM TG-XE-001 D=2 mm  
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

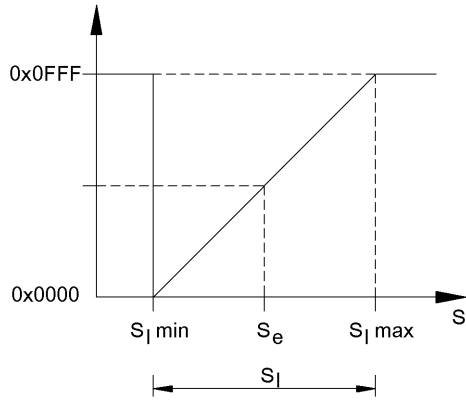
## Connector Drawings



## Wiring Diagrams



## Technical Drawings



## Help Views

Octet 0								Octet 1								
7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	
MSB								Position value				LSB	OoR	-	-	-