

1) LED Power, 2) 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	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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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. ±400 µm
 Repeat accuracy per BWN ±80 µm
 Temperature drift max. from end value ±1.5 %

Remarks

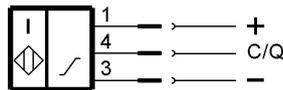
Please refer to manual.
 Specification applies to recommended target BAM TG-XE-001 D=2 mm
 For more information about MTTF and B10d see MTTF / B10d Certificate

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.

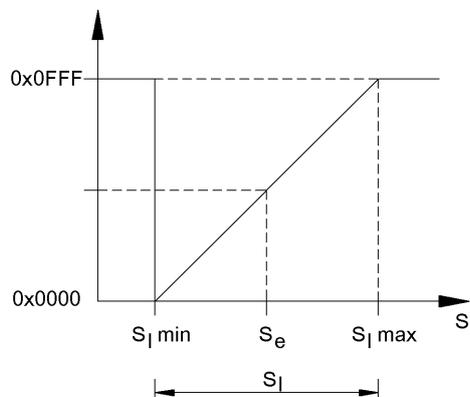
Connector Drawings



Wiring Diagrams (Schematic)



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	-	-	-