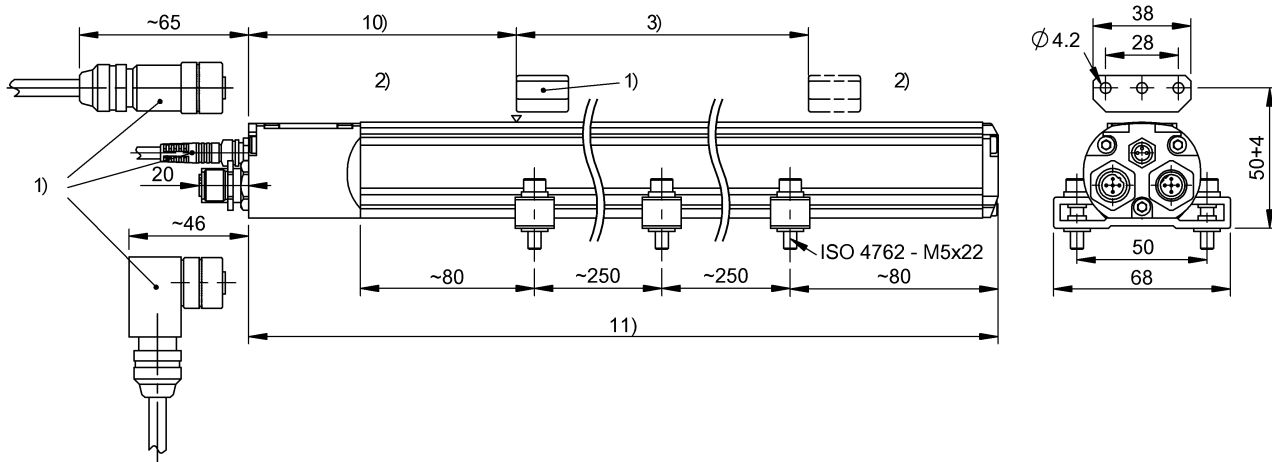


BTL5-T110-M0762-P-S103 BTL026L



1) not included in scope of delivery 2) Non-usable area 3) Nominal length = Measuring length 10) Null point 11) Installation length



Electrical connection

Connection 1	M8x1, 5-pole
Connection 2	M12x1, 3-pole
Connection 3	M12x1
Connection version	axial
Polarity reversal protected	yes

Electrical data

Current consumption max. at 24 V DC	130 mA
Galvanic isolation	yes
Inrush current	≤ 3 A/0.5 ms
MTTF (40 °C)	57 a
Operating voltage U_b	20...28 VDC
Output signal adjustable	with software tool
Overvoltage protection	yes
Voltage-proof up to (GND to housing)	500 V DC

Environmental conditions

Ambient temperature	-40...85 °C
EN 55016-2-3, Radiation	For industrial and residential use
EN 60068-2-27, Continuous shock	100 g, 2 ms
EN 60068-2-27, Shock	100 g, 6 ms
EN 60068-2-6, Vibration	12 g, 10...2000 Hz
EN 61000-4-2, ESD	Severity Level 3
EN 61000-4-3, RFI	Severity Level 3
EN 61000-4-4, Burst	Severity Level 3
EN 61000-4-5, Surge	Severity Level 2
EN 61000-4-6, High-frequency fields	Severity Level 3
EN 61000-4-8, Magnetic fields	Severity Level 4
Protection type IEC 60529	IP67 with connector

Relative humidity	≤ 90 %, non-condensing
Storage temperature	-40...100 °C

Functional safety

Functional safety	no
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General data

Approval/Conformity	CE cULus
Magnets, number (factory setting)	1
Position encoders, number max.	4

Material

Housing material	Aluminum
Housing material, surface protection	anodized

Mechanical data

Distance min. between magnets	65 mm
Fastening detail	Mounting clamps
Installation length	941 mm
Null point	106.0 mm

Output/Interface

Interface	Profibus DP
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Range/Distance

Measuring length	762 mm
Non-linearity max.	±30 μm

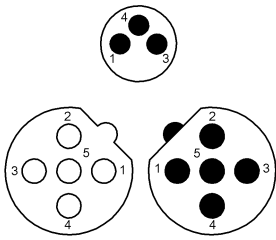
BTL5-T110-M0762-P-S103 BTL026L

Repeat accuracy	±1 LSB
Reproducibility	±1 LSB
Resolution	≤ 5 µm
Resolution min., traverse speed	0.1 mm/s
Sampling rate, length-dependent	1 kHz, standard

For further information on MTTf/B10d, please refer to the MTTf / B10d Certificate.

Specification of the MTTf value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Connector view



Wiring Diagram

Pin	
1	VP +5 V
2	RxD/TxD-N (A)
3	DATA GND
4	RxD/TxD-P (B)
5	shield PROFIBUS-DP

Pin	
1	+24 V DC
3	GND
4	shield of supply