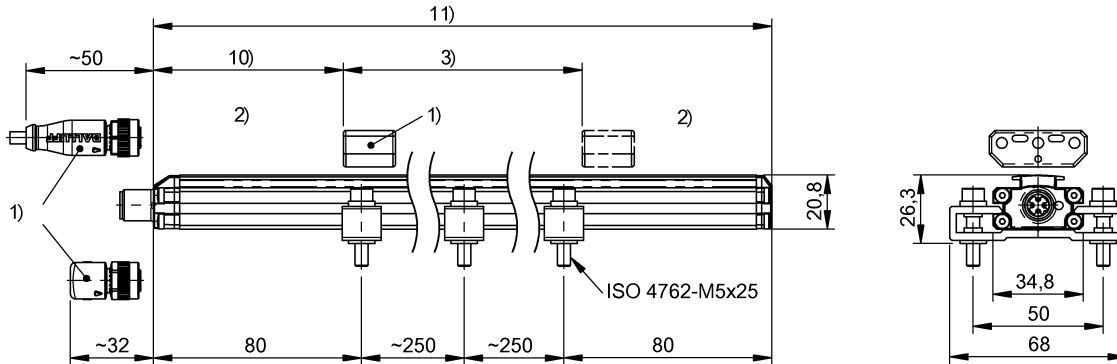


BTL6-U110-M0200-PF-S4 BTL1CEA



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 version	axial
Polarity reversal protected	to 36 V
Short-circuit protection	to GND and to 36 V DC

Electrical data

Current consumption max. at 24 V DC	150 mA
Cycle time min.	1 ms
Galvanic isolation	no
Inrush current	≤ 3 A/0.5 ms
MTTF (40 °C)	116 a
Operating voltage U_b	18...30 VDC
Output signal adjustable	no
Output value	Position in μm
Overvoltage protection	to 36 V
PD cycle min., 1.0 master	4 ms
PD cycle min., 1.1 master	1 ms
Switch-on delay max.	300 ms
Voltage-proof up to (GND to housing)	500 V DC

Environmental conditions

Ambient temperature	-25...70 °C
EN 55016-2-3, Radiation	For industrial and residential use
EN 60068-2-27, Continuous shock	50 g, 2 ms
EN 60068-2-27, Shock	50 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

EN 61000-4-8, Magnetic fields

Protection type IEC 60529

Relative humidity

Storage temperature

Severity Level 3

Severity Level 4

IP67 with connector

≤ 90 %, non-condensing

-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.	1

Material

Cover material	Zinc
Cover material, note	Die casting
Housing material	Aluminum
Housing material, surface protection	anodized
Material cover	Zinc, Die casting

Mechanical data

Fastening detail	Mounting clamps
Installation length	346 mm
Null point	73.0 mm

Output/Interface

Data format	32-bit signed
Interface	IO-Link 1.1

BTL6-U110-M0200-PF-S4 BTL1CEA

IO-Link version	1.1
Process data, device – master	4 bytes
Process data, master – device	0 bytes

Non-linearity max.	±200 µm
Repeat accuracy	≤30 µm
Resolution	≤ 5 µm
Sampling rate max.	1.000 kHz

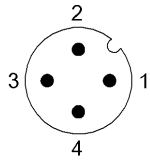
For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

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

Range/Distance

Measuring length	200 mm
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Connector view



Wiring Diagram

Pin	
1	L+ (18...30V)
2	n.c.
3	L- (GND)
4	C/Q (communication line)