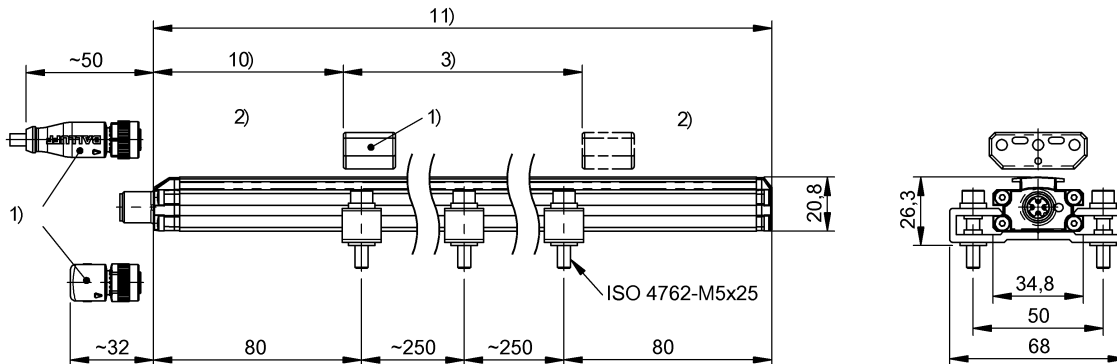


## BTL6-U110-M0500-PF-S4 BTL19WA



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 $\mu\text{m}$
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	646 mm
Null point	73.0 mm

### Output/Interface

Data format	32-bit signed
Interface	IO-Link 1.1

## BTL6-U110-M0500-PF-S4 BTL19WA

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

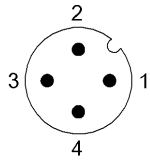
For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

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

### Range/Distance

Measuring length	500 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 )