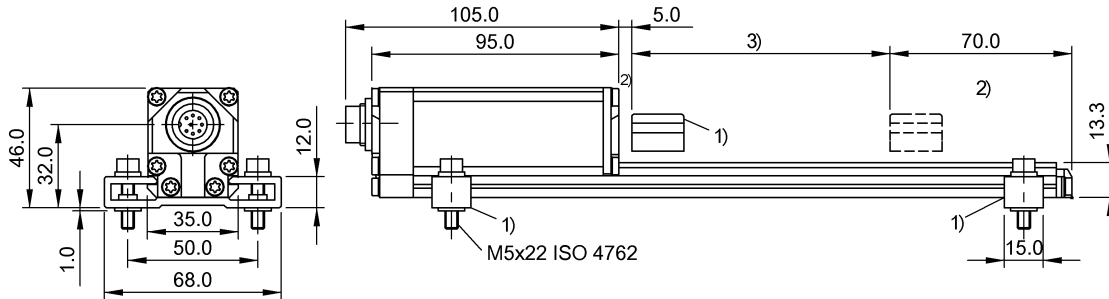


BTL5-A11-M0305-R-S32 BTL07UZ



1) not included in scope of delivery 2) Non-usable area 3) Nominal length = Measuring length



Display/Operation

| | |
|-------------------------------------|--------|
| Error signal U _a falling | ≤ -1 V |
| Error signal U _a rising | ≥ 11 V |

Electrical connection

| | |
|-----------------------------|-------|
| Connection version | axial |
| Polarity reversal protected | yes |

Electrical data

| | |
|--------------------------------------|--------------|
| Current consumption max. at 24 V DC | 150 mA |
| Galvanic isolation | no |
| Inrush current | ≤ 3 A/0.5 ms |
| MTTF (40 °C) | 89 a |
| Operating voltage U _b | 20...28 VDC |
| Oversvoltage protection | yes |
| Voltage-proof up to (GND to housing) | 500 V DC |

Environmental conditions

| | |
|-------------------------------------|--------------------|
| Ambient temperature | -40...85 °C |
| EN 55016-2-3, Radiation | Industrial areas |
| 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

Relative humidity

Storage temperature

IP67 with connector

≤ 90 %, non-condensing

-40...100 °C

Functional safety

| | |
|-------------------|----|
| Functional safety | no |
|-------------------|----|

General data

| | |
|---------------------|----|
| Approval/Conformity | CE |
|---------------------|----|

Material

| | |
|--------------------------------------|----------|
| Housing material | Aluminum |
| Housing material, surface protection | anodized |

Mechanical data

| | |
|------------------|-----------------|
| Fastening detail | Mounting clamps |
| Null point | 5.0 mm |

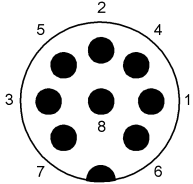
Range/Distance

| | |
|--|-----------------|
| Non-linearity max. | ±100 μm |
| Repeat accuracy | ≤0.1 mV |
| Reproducibility | ≤4 μm |
| Resolution | ≤0.1 mV |
| 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.

BTL5-A11-M0305-R-S32
BTL07UZ

Connector view



Wiring Diagram

| Pin | |
|-----|------------|
| 1 | NC |
| 2 | GND output |
| 3 | 10...0 V |
| 4 | NC |
| 5 | 0...10 V |
| 6 | GND |
| 7 | +24 V DC |
| 8 | NC |