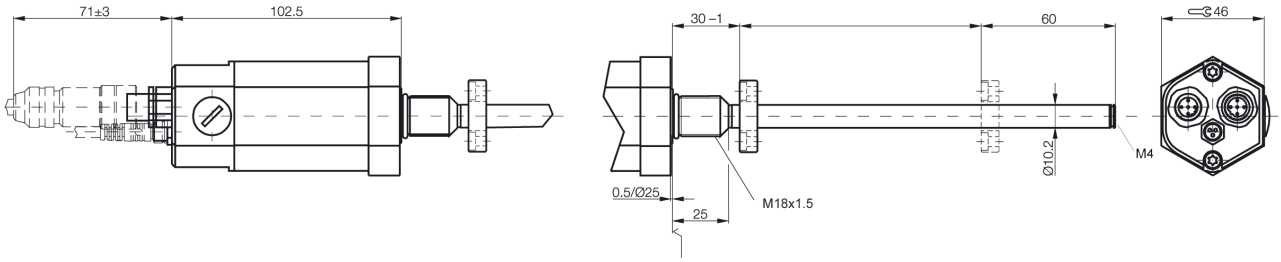
**STA**
**Interface:B**
**BTL5-T1.0-M...-B-S103**

**Micropulse transducer BTL**




## Technical Data

| | |
|---|---|
| Output signal | PROFIBUS-DP |
| Transducer interface | T |
| Input interface | PROFIBUS-DP |
| Profibus-Version | EN 50170, Encoder Profil |
| Profibus-Interface | potential-free |
| System resolution position | 5 µm increments configurable |
| System resolution velocity | 0.1 mm/s increments configurable |
| Hysteresis | <=1 Digit |
| Repeatability | ±1 Digit |
| Sampling rate | 1kHz |
| max.non-linearity | ±30µm at 5 µm resolution |
| Temperature coefficient of overall system | (6µm +5ppm x L) /°C |
| Magnet traverse speed | any |
| Supply voltage | 24 V DC ±20% |
| Current draw | <120mA |
| Operating temperature | -40...85°C |
| Storage temperature | -40...100°C |
| Address assignment | mechanical switches and Master Class 2 |
| Shock load | 100g / 6ms per IEC60068-2-27 |
| Vibration | 12g, 10...2000 Hz per IEC 60068-2-6 |
| Polarity reversal protected | yes |
| Overvoltage protection | Transzorb protection diodes |
| Dielectric constant | 500 V (GND to housing) |
| Enclosure rating per IEC 60529 | IP 67 (when BKS-S...IP 67 connector is in place) |
| Housing material | Anodized aluminum |
| flange- and tube material | 1.4571 stainless tube,<br>1.3952 stainless investment cast flange |
| Mounting | thread M18 ×1,5 |
| Pressure rating | 600 bar |
| Connection type | Connector |
| recommended connector | BKS-S103-00 + BKS-S48 |
| RF emission | EN 55011 Group 1,Class A |
| Static electricity (ESD) | IEC 61000-4-2 Severity Level 3 |
| Electromagnetic fields (RFI) | IEC 61000-4-3 Severity Level 3 |
| Fast transients (BURST) | |
| Line-carried noise, induced by high-frequency fields | |
| Cable length [m ] at Baud rate (kBit/s) | |
| Accessories | |

| Pin assignments | | S103 5-pin | S103 3-pin |
|---|---|---|---|
| Control and data signals | Data GND | 3 | |
| | RxD/TxD-N (A) | 2 | |
| | RxD/TxD-P (B) | 4 | |
| | VP +5 V | 1 | |
| Supply voltage and shield | +24 V | | 1 |
| | 0 V (GND) | | 3 |
| | Ground PROFIBUS-DP | 5 | |
| | Shield Supply | | 4 |

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