



**Technical Data**

|  |  |
|--|--|
| Output signal  | analog   |
| Transducer interface                                 | E  |
| Input interface                                      | analog   |
| Output current                                       | 4...20mA or 20...4mA   |
| Load resistance                                      | <500 Ohm   |
| System resolution                                    | <0,66µA  |
| Hysteresis   | <5µm   |
| Repeatability  | resolution / min. 2µm  |
| Sampling rate  | 2kHz   |
| max.non-linearity                                    | +/-100µm up to L=500mm; 0,02% FS at L>500mm                    |
| Temperature coefficient Current output               | [0,6µA/°C + (10ppm/°C x P x I/L)] x T2-T1                      |
| Supply voltage                                       | 24 V DC ±20%   |
| Current draw   | <150mA   |
| Operating temperature                                | -40...85°C   |
| Storage temperature                                  | -40...100°C  |
| Shock load   | 100g / 6ms per IEC68-2-27                                      |
| 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 (with BKS-S... IP 67 connector attached)                 |
| Housing material                                     | Anodized aluminum  |
| flange- and tube material                            | 1.4571 stainless tube, 1.3952 stainless investment cast flange |
| Mounting   | Thread 3/4" x 16 UNF   |
| Pressure rating                                      | 600 bar  |
| Connection type                                      | Cable or Connector   |
| 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)                              | IEC 61000-4-4 Severity Level 4                                 |
| Line-carried noise, induced by high-frequency fields | IEC 61000-4-6 Severity Level 3                                 |
| Explosion protection                                 | EEx n  |
| Accessories  | Magnets and Connector please order separately                  |

| Pin assignments | Pin | Color | BTL5-E10... | BTL5-E17... |
|-----------------|-----|-------|-------------|-------------|
| Output signals  | 1   | YE    | 4...20 mA   | 20...4 mA   |
|                 | 2   | GY    | 0 V Output  |             |
|                 | 3   | PK    |             |             |
|                 | 5   | GN    |             |             |
|                 | 6   | BU    |             | GND         |
| Supply voltage  | 7   | BN    | +24 V DC    |             |
|                 | 8   | WH    | (GND)       |             |

Connect shield to housing