



**Technical Data**

|  |  |
|--|--|
| Output signal  | analog   |
| Transducer interface                                 | A  |
| Input interface                                      | analog   |
| Output voltage                                       | -10...+10V and +10...-10V, potential isolated                      |
| Load current   | max. 5mA   |
| max.ripple   | <5mV   |
| System resolution                                    | <10µm  |
| Repeatability  | <10µm  |
| Repeat accuracy                                      | <20µm  |
| Sampling rate  | f Standard = 1kHz  |
| max.non-linearity                                    | < +-200µm up to L=500mm; typ. 0,02%, max. 0,04% at L= 500...1500mm |
| Supply voltage                                       | 20-28V DC  |
| Current draw   | <70mA  |
| Operating temperature                                | 0...70°C   |
| Storage temperature                                  | -40...100°C  |
| Shock load   | 50g / 6ms per IEC60068-2-27  |
| Vibration  | 12g, 10...2000 Hz per IEC 60068-2-6                                |
| Polarity reversal protected                          | yes  |
| Overvoltage protection                               | yes  |
| Enclosure rating per IEC 60529                       | IP 67 (with BKS-S...IP 67 connector attached)                      |
| Housing material                                     | Anodized aluminum  |
| Mounting   | Compression clamps   |
| Connection type                                      | Connector M12, 8-pin Standard                                      |
| RF emission  | EN 55011 Group 1, Class A+B  |
| 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                                   | EN 61000-4-6 Severity Level 3                                      |
| Line-carried noise, induced by high-frequency fields | IEC 61000-4-8 Severity Level 4                                     |
| Accessories  | Magnet, Clamp and Connectors please order separately               |

| Pin assignments | Pin | BTL6-G310... |
|-----------------|-----|--------------|
| Output signals  | 1   | 0 V Output   |
|                 | 2   | 0 V Output   |
|                 | 3   | -10...10 V   |
|                 | 5   | 10...-10 V   |
| Supply voltage  | 6   | GND          |
|                 | 7   | +24 V DC     |

Connect shield to housing,  
pins 4 and 8 must remain unconnected.