



1) Not incl. in scope of del. 2) Unusable area 3) Nom. stroke = Meas. length 4) Mounting surface 5) Internal thread M4x4/6 deep

- Series Rod
- Analog interface, current



General attributes

Approvals / Conformity CE
 cULus
 IP67 (with connector)
 Generation 7
 No of magnets, factory setting 1 ST
 Polarity reversal protected Up to 36 V
 Short circuit protected to GND and to 36 V DC

Electrical attributes

Connection type Connector
 Current draw (at 24 V DC) ≤ 150 mA
 Error signal Ia rising 3.6 mA
 For dynamic loop applications No
 Inrush current ≤ 500 mA / 25 ms
 Interface Analog interface, current
 Interface group Analog
 Load resistance RL max. ≤ 500 Ohm
 Non-linearity max. ±0.01 % FS
 Number of magnets max. 1 ST
 Operating voltage UB max. DC [V] 28.0 V
 Operating voltage UB min. DC [V] 20.0 V
 Output signal 4...20 mA
 Output signal adjustable With setup tool
 Via programming inputs
 Overvoltage protected Up to 36 V
 Potential isolation No
 Programming inputs 20 ... 28 V DC, High-active
 Ripple 0.5 Vpp
 Voltage resist (GND – housing) 500 V AC

Mechanical attributes

Nominal stroke 1,700 mm

Ambient temperature Ta max. 85 °C
 Ambient temperature Ta min. -40 °C
 Cable/connector out Axial
 Connector type M16
 E module 200 kN/mm²
 EN55016-2-3 (emission) Indust. and residential area
 EN60068-2-27 (shock) 150 g / 6 ms
 EN60068-2-29 (contin. shock) 150 g / 2 ms
 EN60068-2-6 (vibration) 20 g, 10...2000 Hz
 EN60068-2-64 (noise) 20 g, 10...2000 Hz
 EN61000-4-2 (ESD) Severity Level 3
 EN61000-4-3 (RFI) Severity Level 3
 EN61000-4-4 (Burst) Severity Level 3
 EN61000-4-5 (Surge) Severity Level 2
 EN61000-4-6 (HF fields) Severity Level 3
 EN61000-4-8 (magnetic fields) Severity Level 4
 Flange material Stainless steel 1.3952
 Housing material Anodized aluminum
 Mounting type Threaded flange M18x1.5
 Null point 30.0 mm
 Number of poles 8
 O-ring material Viton
 Offset mounting surface Yes
 Outer tube material Stainless steel 1.4571
 Pressure resistance ≤ 600 bar
 Relative humidity < 90 %, non-condensing
 Repeat accuracy ±5 µm
 Storage temperature max. 100 °C
 Storage temperature min. -40 °C
 Style Series Rod
 TK, typ. (at 50 % of 500 mm) ≤ 30 ppm/K
 Version Type B
 With O-ring Yes

Micropulse transducer
BTL7-E100-M1700-B-S32
BTL0HMU

BALLUFF
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Pin	
1	4...20 mA
2	0V
3	NC
4	La
5	NC
6	GND
7	+24 V DC
8	Lb

