

BTL5-E50-M0166-J-DEXC-TA12 BTL0JCC



1) not included in scope of delivery 2) Non-usable area 3) Nominal length = Measuring length 4) Mounting surface 5) Internal threads M4x4/6 deep 6) Null point 7) Installation length 8) 1/2" - 14 NPT (cable entry) 9) 15/16" or 24 mm wrench 10) External Housing GND 11) Cover fastening screw 12) O-ring 13) Part label, metal



Display/Operation

Error signal Ia rising 3.6 mA

Electrical connection

Connection version radial
Polarity reversal protected yes

Electrical data

Current consumption max. at 24 V DC 150 mA
Galvanic isolation no
Inrush current $\leq 3 \text{ A}/0.5 \text{ ms}$
Operating voltage U_b 10...30 VDC
Overvoltage protection yes
Voltage-proof up to (GND to housing) 500 V DC

Environmental conditions

Ambient temperature -40...80 °C
EN 55016-2-3, Radiation For industrial and residential use
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 IP68
Relative humidity $\leq 90 \%$, non-condensing
Storage temperature -50...100 °C

General data

Approval/Conformity CE
CSA15.2411253X
SIRA 11ATEX1104X
IECEX SIR 11.0048X
Position encoders, number max. 1 pcs

Material

Housing material Stainless steel (1.4404)
Material flange Stainless steel (1.4404)
O-ring material FKM
Protection tube material Stainless steel (1.4571)

BTL5-E50-M0166-J-DEXC-TA12 BTLOJCC

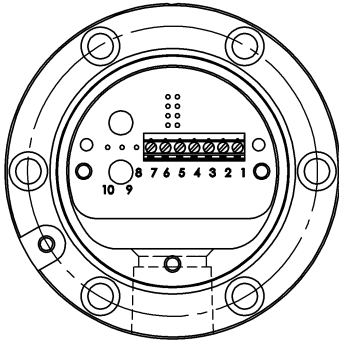
Mechanical data

Fastening detail	Flange Ø18h6 plus holes
Housing diameter	88.00 mm
Installation length from contact surface	294 mm
Null point	50.8 mm
Pressure rating max.	600 bar
Protection tube diameter	10.2 mm

Range/Distance

Non-linearity max.	±100 µm
Repeat accuracy	≤ ±0.66 µA
Reproducibility	≤5 µm
Resolution	≤ 0.66 µA
Sampling rate, length-dependent	1 kHz, standard

Connector view



Wiring Diagram

PIN	
1	4...20mA
2	GND Output
3	NC
4	GND
5	10...30 V DC
6	NC
7	NC