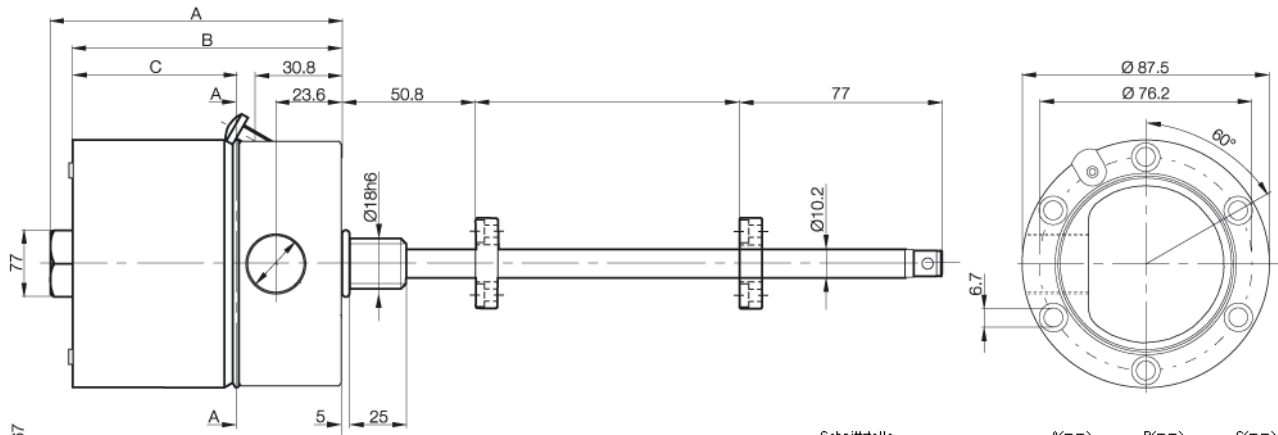


J

Interface:DEXC

BTL5-T1.0-M....-J-DEXC-TA12

Micropulse transducer BTL



P10067

Schnittstelle	A(mm)	B(mm)	C(mm)
Analog A,C,E,G, Digital P,M,SSI	104,12	96,12	59,5
ProfiBus-DP, CANopen	135,62	127,62	91

Technical Data

Output signal	PROFIBUS-DP
Transducer interface	T
Input interface	PROFIBUS-DP
Profibus-Version	EN 50170, Encoder
Profibus-Interface	potential-free
System resolution position	5µm increments, configurable
System resolution velocity	0,1 mm/s increments, configurable
Hysteresis	<=1 Digit
Repeatability	±1 Digit
Sampling rate	1kHz
max.non-linearity	±30 µm 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	-20...80°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	ja
Overvoltage protection	Transzorb-Schutzdioden
Dielectric constant	500 V (GND to housing)
Enclosure rating per IEC 60529	IP 68
Housing material	Stainless steel Nitronics 60
flange- and tube material	1.4571 stainless
Mounting	Flange Ø18 mm, PCD Ø 76.2 mm
Pressure rating	600 bar
Connection type	Screw terminals
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	
Cable length [m] at Baud rate (kBit/s)	
Accessories	

Pin assignments	S103 5-pin	S103 3-pin	GD
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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