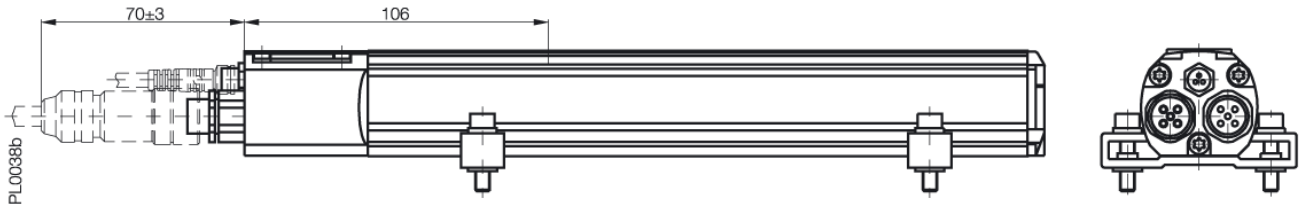


**PRO**  
**Interface: T**  
**BTL5-T1.0-M...-P-S103**

**Micropulse transducer BTL**



**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	5 µm increments configurable
System resolution velocity	0.1 mm/s increments configurable
Hysteresis	<=1 Digit
Repeatability	±1 Digit
Sampling rate	1kHz
max.non-linearity	±30µm 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	-40...85°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	yes
Overvoltage protection	Transzorb protection diodes
Dielectric constant	500 V (GND to housing)
Enclosure rating per IEC 60529	IP 67 (when BKS-S...IP 67 connector is in place)
Housing material	Anodized aluminum
Mounting	Compression clamps
Connection type	Connector
recommended connector	BKS-S103-00 + BKS-S48
RF emission	EN 55 011 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
Cable length [m ] at Baud rate (kBit/s)	<100 <200 <400 <1000 <1200
Accessories	



	Signal	S103 5-pin	S49 3-pin
Control and Data signals	Data GND	3	
	RxD/TxD-N (A)	2	
	RxD/TxD-P (B)	4	
	VP +5 V	1	
Power Supply	+ 24 V DC		1
	0 V (GND)		3
	Ground PROFIBUS-DP	5	
	Shield Power Supply		

