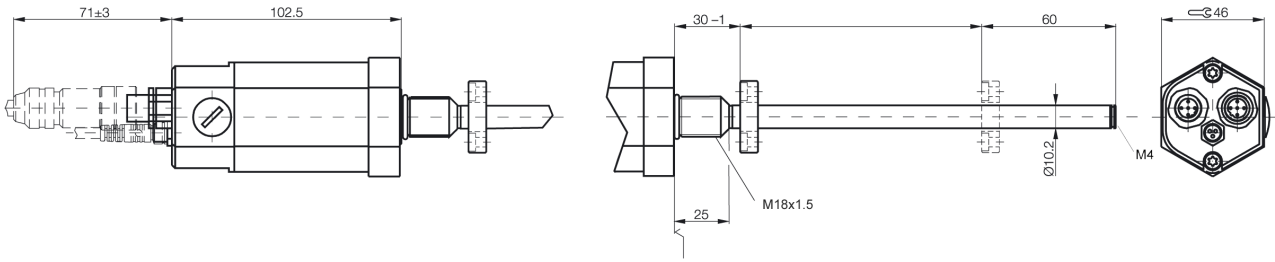


STA
Interface:A
BTL5-T1.0-M...-A-S103

Micropulse transducer BTL



Technical Data

Output signal	PROFIBUS-DP
Transducer interface	T
Input interface	PROFIBUS-DP
Profibus-Version	EN 50170, Encoder Profil
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
flange- and tube material	1.4571 stainless tube, 1.3952 stainless investment cast flange
Mounting	thread M18x1,5, Flange without mounting surface
Pressure rating	600 bar
Connection type	Connector
recommended connector	BKS-S103-00 + BKS-S48
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)	
Line-carried noise, induced by high-frequency fields	
Cable length [m] at Baud rate (kBit/s)	
Accessories	

Pin assignments		S103 5-pin	S103 3-pin
Control and	Data GND	3	
data signals	RxD/TxD-N (A)	2	
	RxD/TxD-P (B)	4	
	VP +5 V	1	
Supply voltage	+24 V		1
and shield	0 V (GND)		3
	Ground PROFIBUS-DP	5	
	Shield Supply		4