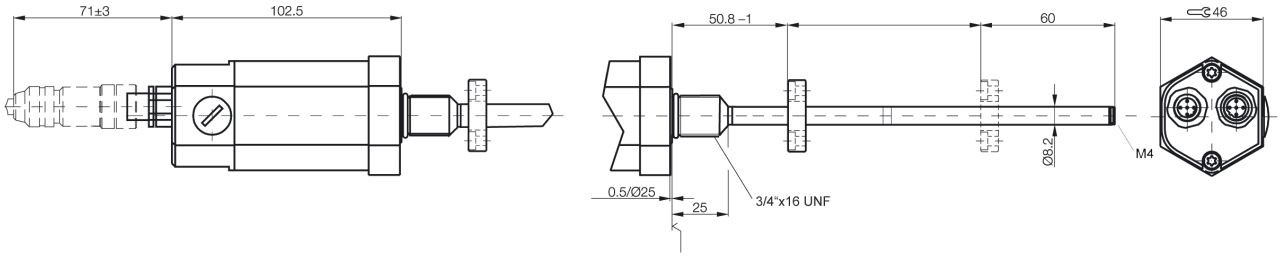
STA
Interface:Z8
BTL5-H1..-M....-Z8-S94

Micropulse transducer BTL



Technical Data

Output signal	CANopen
Transducer interface	H
Input interface	CANopen
CANopen Interface	potential-free
System resolution position	5µm Steps
System resolution velocity	0,1 mm/s Steps
Hysteresis	<=1 Digit
Repeatability	±1 Digit
Sampling rate	1 kHz
max.non-linearity	±30µm at 1,5 and 10µm resolution or < ±2 LSB
Temperature coefficient of overall system	(6µm +5ppm x L) /°C
Supply voltage	20...28V DC
Current draw	<100mA
Operating temperature	-40...85°C
Storage temperature	-40...100°C
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 (with BKS-S...IP 67 connector attached)
Housing material	Anodized aluminum
flange- and tube material	1.4571 stainless tube, 1.3952 stainless investment cast flange
Mounting	thread 3/4" x 16 UNF
Pressure rating	250 bar
Connection type	Connector
recommended connector	BKS-S92-00, BKS-S94-00
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
Cable length [m] at Baud rate [kBaud] per CiA DS301	<25 <50 <100 <250 <500 <1000 <1250 <2500

Accessories

Pin assignments	Pin	Color	
Control and data signals	1	WH	CAN_GND
	2	BN	+24 V
	3	BU	0 V (GND)
	4	GY	CAN_HIGH
	5	GN	CAN_LOW

Balluff GmbH
Schurwaldstrasse 9
73765 Neuhausen a.d.F.
Phone (07158) 173-0 Fax (07158) 5010

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