

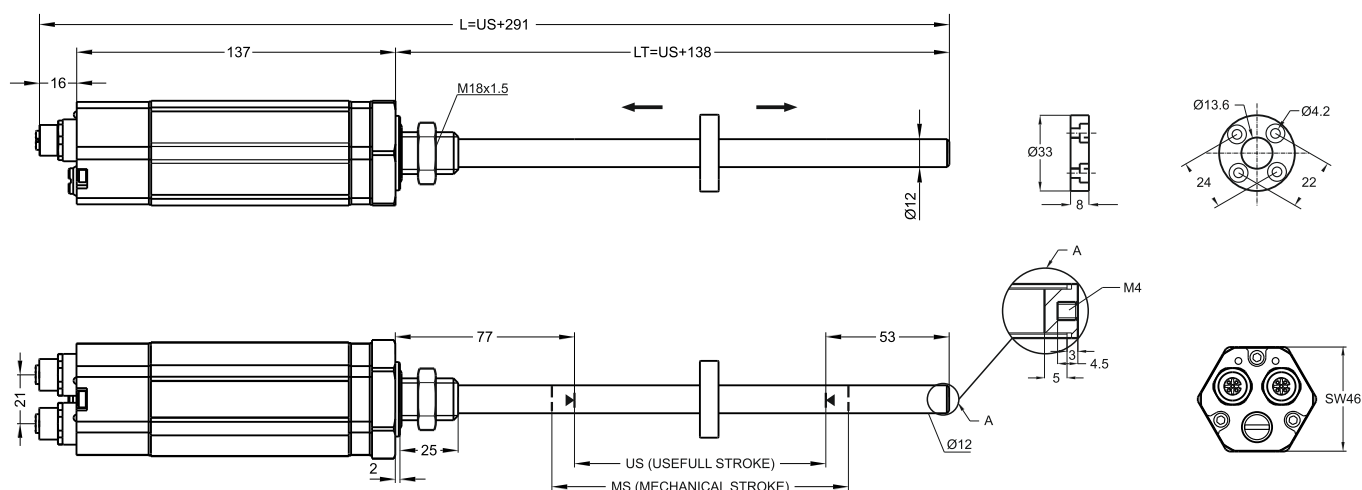
Magnetostrictive Position Sensor with CANopen Output

- Measuring range 100 - 2000 mm
- 15 bit resolution
- CANbus, CANopen
- 24 VDC power supply



Technical specifications

Measurement stroke	100 to 2000 mm
Resolution	15 bit (32767 = max. stroke length)
Linearity	±%0,05 (>200mm), ±%0,1 (<200 mm)
Repeatability	±0,005% (full scale)
Response time	1 ms (at 500 Kbit/s)
Termination	120R configure with software
Interface	CAN
Protocol	CANopen, CANbus
Communication profile	CiA301, CiA406 V3.2
Node number	1 up to 127 (default Node ID: 88)
Baud rate	10 Kbit/s to 1Mbit/s (default Baud Rate: 500 Kbit/s)
Properties	Asynchronous - Synchronous communication, SDO, PDO, Guard-Time, Heartbeat, Node ID, Baud Rate, Termination, etc.
Power supply	24 VDC ±10%
Sampling rate	up to 2 kHz (depending on stroke length)
Max. consumption	50 mA - 90 mA (depending on stroke length)
Reverse polarity protection	Up to -30 VDC
Overvoltage protection	Up to 40 VDC
Protection	Reverse polarity
Green Led	Power ON, Can Communication Active
Red Led	Error, Stop Mode
Pressure rating	< 500 bar
Mounting	M18 x 1.5
Housing material	Profile: Anodized aluminium, Tube: Stainless steel, Caps: Stainless steel



MST (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
US (Useful Stroke)	108	158	208	258	308	358	408	458	508	558	608	658	708	758	808	858	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008
MS (Mechanical Stroke)	128	178	228	278	328	378	428	478	528	578	628	678	728	778	828	878	928	1028	1128	1228	1328	1428	1528	1628	1728	1828	1928	2028
LT	238	288	338	388	438	488	538	588	638	688	738	788	838	888	938	988	1038	1138	1238	1338	1438	1538	1638	1738	1838	1938	2038	2138
Total Length	391	441	491	541	591	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1291	1391	1491	1591	1691	1791	1891	1991	2091	2191	2291

Model	Measurement stroke	Protocol	Protocol		Termination	Supply	Connector / Cable
(example) DMST	200	COB	5BR		1S0	V4	2C5
DMST	100 ... 2000 mm	COB: CANopen CAB: CANbus	0BR : 10 Kbit/s 1BR : 20 Kbit/s 2BR : 50 Kbit/s 3BR : 100 Kbit/s 4BR : 125 Kbit/s	5BR : 250 Kbit/s 6BR : 500 Kbit/s 7BR : 800 Kbit/s 8BR : 1 Mbit/s	120R Bus termination resistor 1S0: Switch off 1S1: Switch on	V4: 24 VDC	1C5: 5 pin, 1 connector (M12x1) 2C5: 5 pin, 2 connector (M12x1)