

# DMMST Non-Contact Magnetostrictive Position Sensor

## CANbus

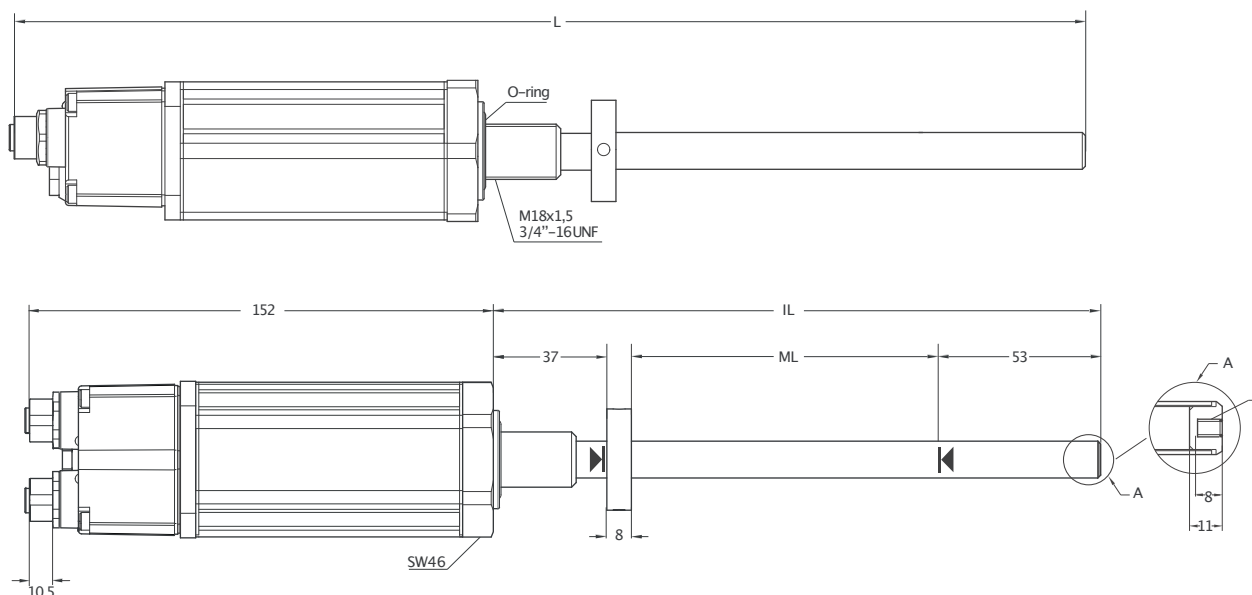


- Measuring length 100–5000mm
- CANbus protocol
- 24 VDC power supply

### Technical Specifications

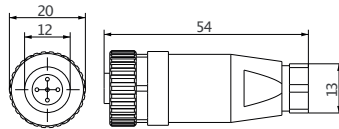
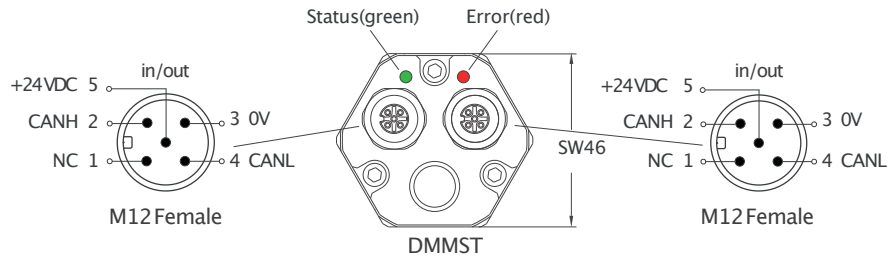
Measurement stroke	100 – 5000 mm
Resolution	25µm (100mm–400mm), 50µm (450mm–3000mm), 100µm (4000mm–5000mm)
Repeatability	100 µm
Output	CANbus
Power supply	24 VDC ±10%
Displacement speed	max. <5m/s
Max. consumption	<100mA (depending on stroke length)
Linearity	100 mm <%1, 100–300mm <%0.2, 300–500mm <%0.1, 500–5000mm >%0.05
Reverse polarity protection	Up to –30 VDC
Overvoltage protection	Up to +30VDC
Update time	10 ms (at 500Kbit/s)
Interface	CAN
Protocol	CANbus
Data-length	16 bit
Communication profile	CiA 301
Diagnostic LEDs	Green LED : Power on, CAN communication active Red LED : Error, Stop mode
Protection level	IP 65
Operating temperature	–20°C ... +80°C
Storage temperature	–30°C ... +90°C
Sensor address (Default Node ID)	20 (ID programmable by software)
Baud rate (Default :500Kbit/s)	max. :1Mbit/s (programmable by software)

### Mechanical Specifications



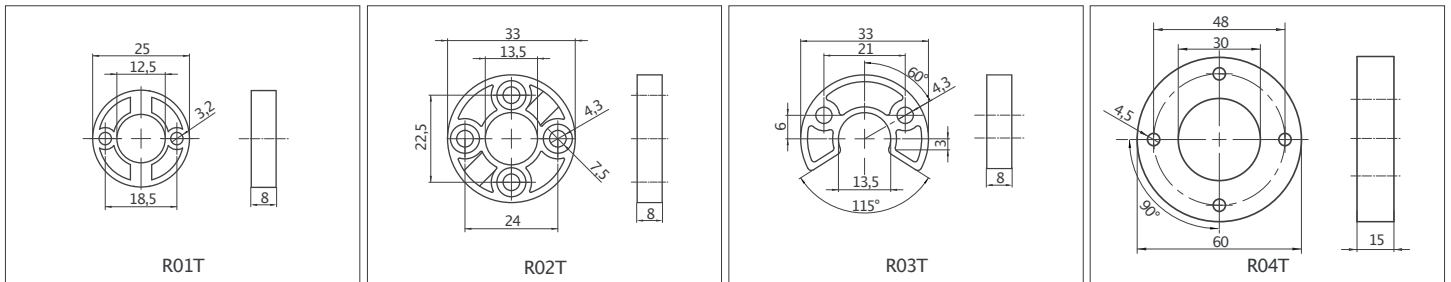
DMMST(mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	3000	4000	5000			
ML (Measuring Length)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	3000	4000	5000			
IL (Installation Length)	198	248	298	348	398	448	498	548	598	648	698	748	798	848	898	948	998	1098	1198	1298	1398	1498	1598	1848	2211	2461	2711	3211	4211	5211			
L (Total Length)	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1250	1350	1450	1550	1650	1750	2000	2350	2600	2850	3350	4350	5350			
Dead Zone Calculation	37/53 mm																																

## Connection



M12 Male Connector

## Cursor



## Ordering Procedure

Model	Measurement stroke	Rod & Thread	Sealing surface	Protocol	Baud rate	Termination	Cursor	Dead zone
DMMST	150	E12	S	CAB	6BR	1S0	1R02T	37/53
DMMST	100 – 5000 mm	E10 : Ø10, M18x1,5 E12 : Ø12, M18x1,5 U10 : Ø10, 3/4"-16UNF U12 : Ø12, 3/4"-16UNF EO10 : Ø10, M24x1,5 EO12 : Ø12, M24x1,5 EA10 : Ø10, M24x1,5 EA12 : Ø12, M24x1,5 EB10 : Ø10, M30x2 EB12 : Ø12, M30x2	S: O-ring F: Flat	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	1S0: Off 1S1: On	1R01T: 25 mm 1R02T: 33 mm 1R03T: 33 mm 1R04T: 60 mm  1R01T: 1 cursor 2R01T: 2 cursors	≤2000 mm 30/53 37/53 47/53 57/53 67/53 77/53 30/60 51/63 >2000-3000 mm 130/53 >3000-5000 mm 150/53

\* T-coded sensors are used with T-coded cursors.