

DMSW

**Non-Contact
Magnetostrictive Position Sensor**



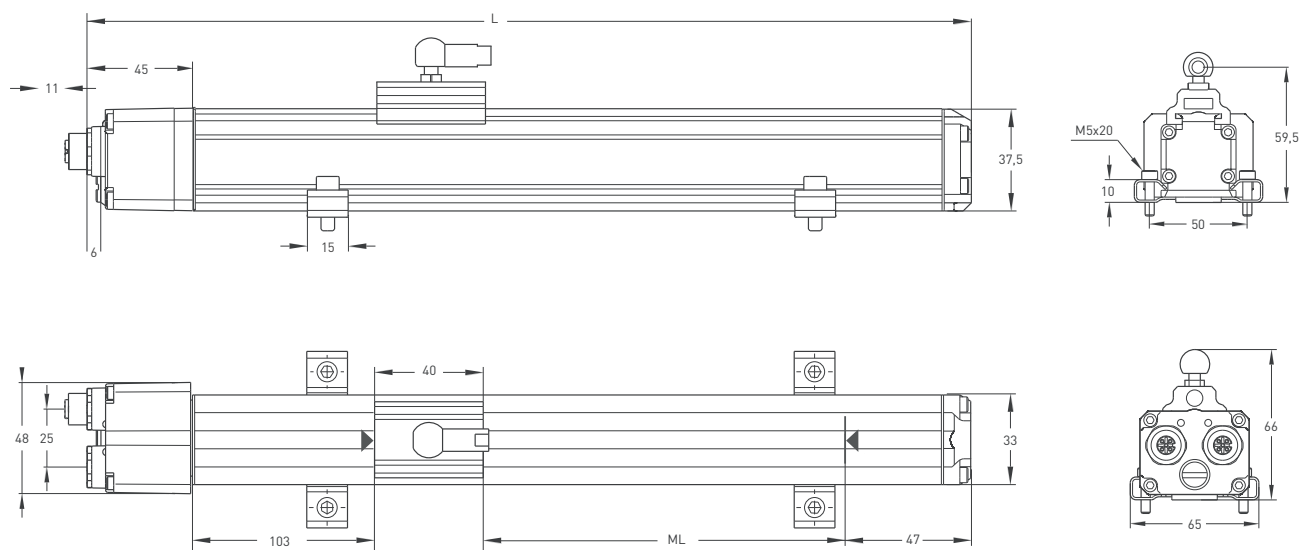
CANbus

- Measuring length 100 - 5000 mm
- 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. < 5 m/s
Max. consumption	< 100 mA (depending on stroke length)
Linearity	100 mm < %1, 100-300 mm < %0.2, 300-500 mm < %0.1, 500-5000 mm > %0.05
Reverse polarity protection	Up to -30 VDC
Overvoltage protection	Up to +30 VDC
Update time	10 ms (at 500 Kbit/sec)
Interface	CAN
Protocol	CANbus
Data-length	16 bit
Communication	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 Adress (Default Node ID)	20 (Programmable by software)
Baud rate (Default :500Kbit/s)	max. :1 Mbit/s (Programmable by software)

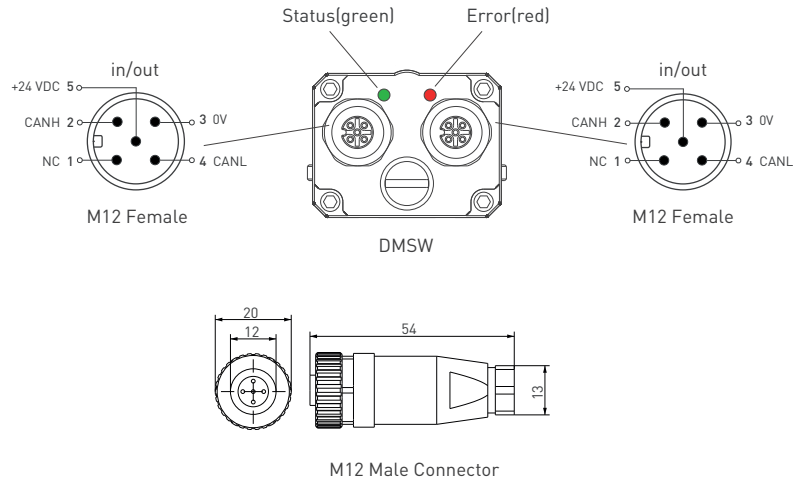
Mechanical Specifications



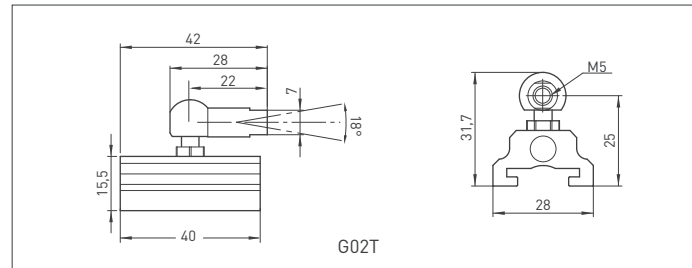
DMSW (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	3000	4000	5000
ML (Measuring Length)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	3000	4000	5000
(Total Length)	290	340	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1190	1290	1390	1490	1590	1690	1940	2272	2522	2772	3302	4342	5342
Dead Zone Calculation																	103/47													

Please note: The specifications and information in this datasheet may not cover all special demands arising from specific applications. Therefore, they do not constitute a comprehensive description of the product properties. OPKON accepts no responsibility for damages resulting from the improper application of our products. The user is responsible for ensuring that the products used are suitable for their own application.

Connection



Cursor



Ordering Procedure

Model	Measurement stroke	Protocol	Baud rate	Termination	Cursor	Connecting brackets	Dead zone
DMSW	150	CAB	6BR	150	1G02T	BR02	103/47
DMSW	100 - 5000 mm	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	150: off 151: on	1G02T: 1 cursor 2G02T: 2 cursors 1: cursor 2: cursors	BR01 BR02	≤ 2000 mm 103/47 $> 2000-3000$ mm 145/47 $> 3000-4000$ mm 175/47 $> 4000-5000$ mm 215/47

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