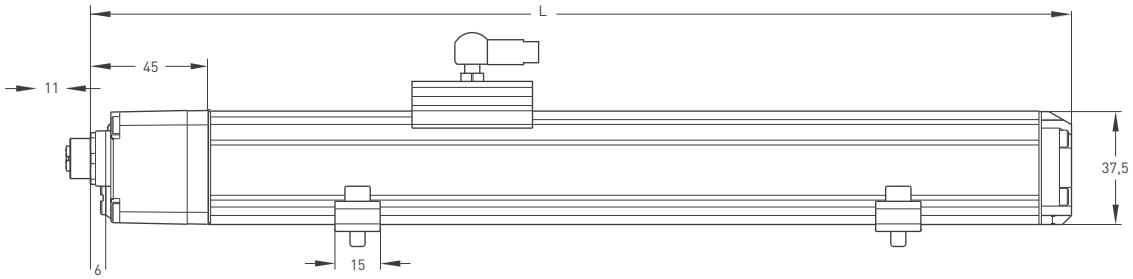
DMSW
Non-Contact
Magnetostrictive Position Sensor

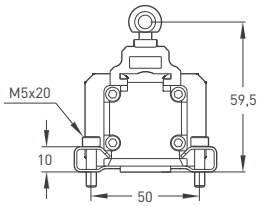
CANopen®

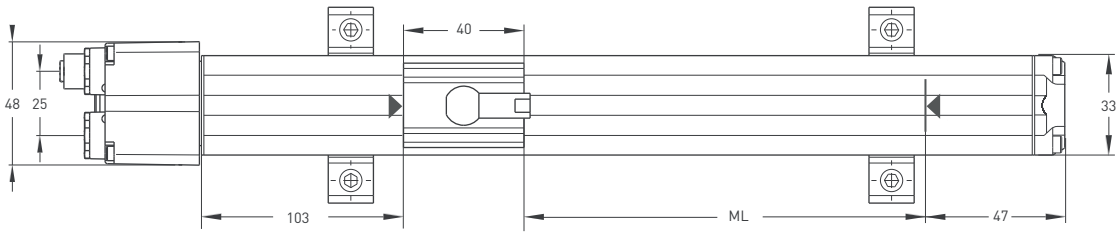
- Measuring length 100 - 5000 mm
- CANopen protocol
- 24 VDC power supply

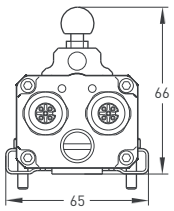
Technical Specifications	
Measurement stroke	100 - 5000 mm
Resolution	25µm (100mm-400mm), 50µm (450mm-3000mm), 100µm (4000mm-5000mm)
Repeatability	100 µm
Output	CANopen
Power supply	24 VDC ±10%
Displacement speed	max. < 5 m/s
Max. consumption	< 100 mA (depending on stroke length)
Linearity	100 mm < %1, 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	1 ms (at 500 Kbit/sec)
Interface	CAN
Protocol	CANopen
Data-length	16 bit
Communication	CiA 301, CiA 406 V 3.2
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





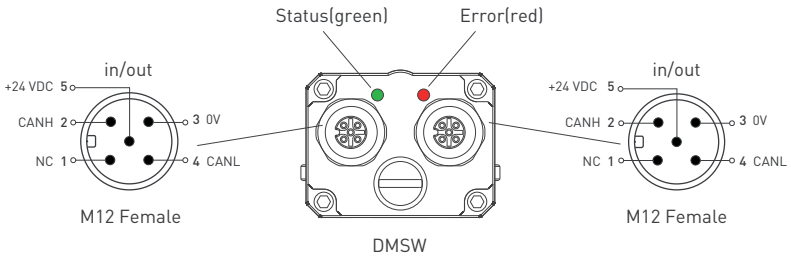


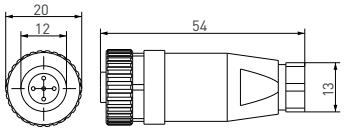


DMSW (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	3000	4000	5000
ML (Measuring Length)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	3000	4000	5000
L (Total 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																													

DS.DMSW.CANOPEN.ENG.03.11.23.AN

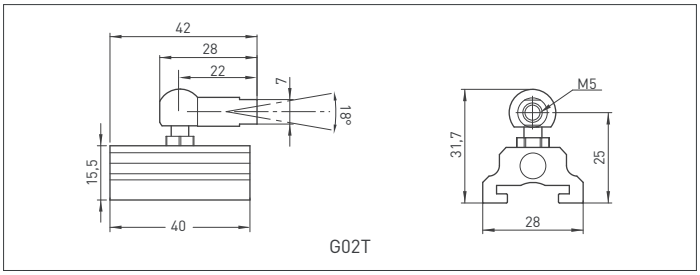
Connection





M12 Male Connector

Cursor



G02T

Ordering Procedure

Model	Measurement stroke	Protocol	Baud rade	Termination	Cursor	Connecting brackets	Dead zone
DMSW	150	COB	6BR	1S0	1G02T	BR02	103/47
DMSW	100 - 5000 mm	COB: CANopen	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	1G02T: 1 cursor 2G02T: 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.