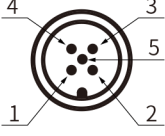


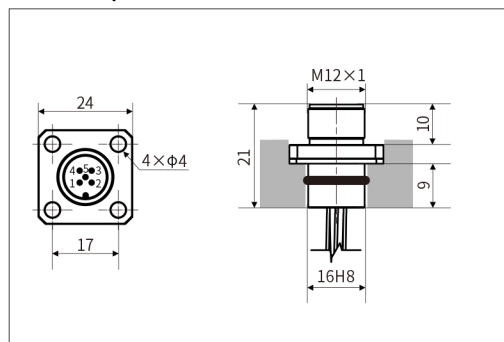
MH-CANopen Output

Electrical connections

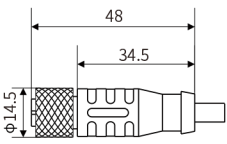
• CAN (connector)

M12-5 Pin Definition	No.	PC
	1	Do not connect
	2	Power supply
	3	Ground
	4	CAN High
	5	CAN Low

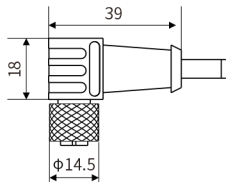
M12-5 pin socket




• CANopen (Cable color definition of female connector)

M12-5 pin female connector	Cable color	
	Definition	PC
	Power supply	Brown
	Ground	White
	CAN High	Yellow
	CAN Low	Green

• CANopen (Cable color definition of right angle female connector)

M12-5pin right angle female connector	Cable color	
	Definition	PC
	Power supply	Brown
	Ground	White
	CAN High	Yellow
	CAN Low	Green

• CAN (cable outlet)

Cable code: 511816	Definition	Cable color
	Power supply	Brown
	Ground	White
	CAN High	Yellow
	CAN Low	Green

MH CANopen Output Displacement Sensor

Product Parameters-CANopen Output

• Input

Measurement data	Position (vernier magnet)
Stroke length	50~2500 mm

• Output

Interface	CAN bus ISODIS11898, CANopen conforms to CIA DS-301V3.0, sensor specification DS-406V3.1
Transmission speed	maximum 1Mbit/s
Resolution	±0.1mm
Nonlinearity	±0.1mm (≤250mm) or 0.04%F.S (>250mm)
Repetition accuracy	±0.1mm
Update time	2ms

• Operating conditions

Magnet velocity	Arbitrary
Protection level	IP67
Operating temperature	-40 C ~ +105 C
Humidity/dew point	Humidity 90%, no condensation
Temperature drift coefficient	<30ppm/C
Shock index	GB/T2423.5 100g (11ms)
Vibration index	GB/T2423.10 25g/10~2000Hz

EMC test	GB/T17626.2 Electrostatic Discharge Anti-interference, Grade 3, Class A
	GB/T17626.3 Radio Frequency Electromagnetic Field Radiation Anti-interference, Grade 3, Class A
	GB/T17626.4 Electric Fast Transient Group Anti-interference, Grade 3, Class B
	GB/T17626.6 Radio Frequency Field Induced Conducted Disturbance Anti-interference, Grade 3, Class A
	GB/T17626.8 Power Frequency Magnetic Field Anti-interference, Grade 4, Class A

• Electrical connections

Input voltage	9~ 32Vdc
Power consumption	<1W
Polarity protection	maximum-30Vdc
Overvoltage protection	maximum36Vdc
Insulation resistance	> 10MΩ
Insulation strength	500V
Outgoing mode	Cable outlet or connector

• Construction and materials

Electronic compartment	304Lstainless steel
Measuring rod	304Lstainless steel
Operating pressure grade	Rated pressure Pn: 35MPa maximum pressure Pmax: 45MPa for stell rod with diameter of 10mm
Assembly	Any direction
Position magnet	Various ring magnets

MH CANopen Output Displacement Sensor

Selection Guide-CANopen Output

M	H	-	M					-	S		-					-	C	1				-	M	
01	02		03	04	05	06	07		08	09		10	11	12	13		14	15	16	17	18		19	20

01 - 02	Sensor shell form				
M H	Flange shell Φ48mm				
03 - 07	Measuring range				
	0050~2500mm, step length 1mm				
08 - 09	Mounting thread form				
S A	Pressure-resistant rod, diameter 10mm				
S C	Pressure-resistant rod, diameter 10mm; Thread with M4 at end				
S F	Pressure-resistant rod, diameter 7mm				
10 - 13	Connection form				
P C	4 wiring harness, M12 IP69K, 5 pins (2-3-4-5)				
P C 0 6	60mm, minimum length of wiring harness				
P C 2 5	250mm, maximum length of wiring harness				
D M	CAN special cable outlet				
D M 0 1	1m cable				
D M R 1	0.1m cable, ordering method within 1 m				
14 - 18	Signal output mode				
14 - 15	Output form				
C 1	CANopen				
16	Baud				
1	1000Kbit/s	2	800Kbit/s	3	500Kbit/s
4	250Kbit/s	5	125Kbit/s	6	100Kbit/s
7	50Kbit/s	8	20Kbit/s		
17	Resolution				
1	0.1mm				
18	Number of magnet rings				
1	Single magnet ring				
19 - 20	Non-usable area at head and end, customizable				
M 0	30mm+36.5mm				
M 1	30mm+63.5mm				

Selection example

For example: MH-M0300-SA-DM05-C1411-M1

Indicates: MH flange diameter 48mm, stroke length 300mm, pressure-resistant rod with diameter 10mm, straight cable form, CANopen output, baud 250kbit/s, resolution 0.1 mm, single magnet ring, head and end non-usable area 30mm +63.5mm.