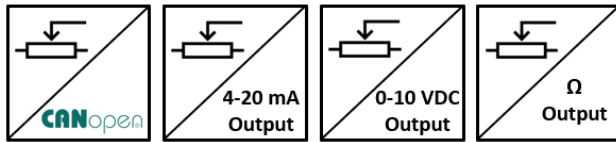


AWP 811

“Potentiometric, Analog or CANopen Output,
High Accuracy”



- 2500 mm or 5000 mm stroke (measuring) length
- $\pm 0.5\%$ FS linearity
- Potentiometric, 0-10 VDC, 4-20 mA analog output or CANopen output options
- Redundant output model option
- Stainless steel measuring wire
- IP54 protection class (Optional IP67)
- Compact design
- Easy installation
- 2 m/s maximum speed
- Shock/Vibration resistant
- Aluminum body

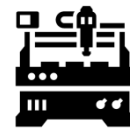
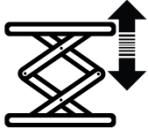
AWP 811 series draw wire sensors; consists of a rotary potentiometer which is controlled by stainless steel wire. They make measurement by pulling and rewinding stainless steel wire. They convert linear motion to potentiometric output.

The “A” series gives of 4-20 mA analog output with the help of the converter card.
The “V” series gives of 0-10 VDC analog output with the help of the converter card.
The “C” series gives of CANopen signal output with the help of the converter card.

Optionally, redundant output, different cable length or connector model can be requested.

SAMPLE APPLICATION FIELDS

- Elevators
- Press machines
- Crane systems
- Wood processing machines
- Marble processing machines
- Storage positioning
- Dam protections
- Sluice gate control
- Air compressors
- Glass processing machines
- Lifting platforms
- Applications in medical technologies (operating table etc.)
- Forklifts
- Screw machines
- Paper machines
- Sewing machines
- Hydraulic machines
- Sheet metal machines
- Printing machines
- Horizontal control equipments
- Construction machines
- Industrial robots
- Injection machines
- X-Y axis displacement
- Liquid level measurements and position control



MECHANICAL DATA

Measuring Range (stroke)	2500mm or 5000mm
Maximum Speed	2 m/s
Required Force	12N
Protection Class	IP54 (Optional IP67)
Operating Temperature	-25°C...+85°C
Material	Body: Aluminum
	Measuring Wire: Stainless steel

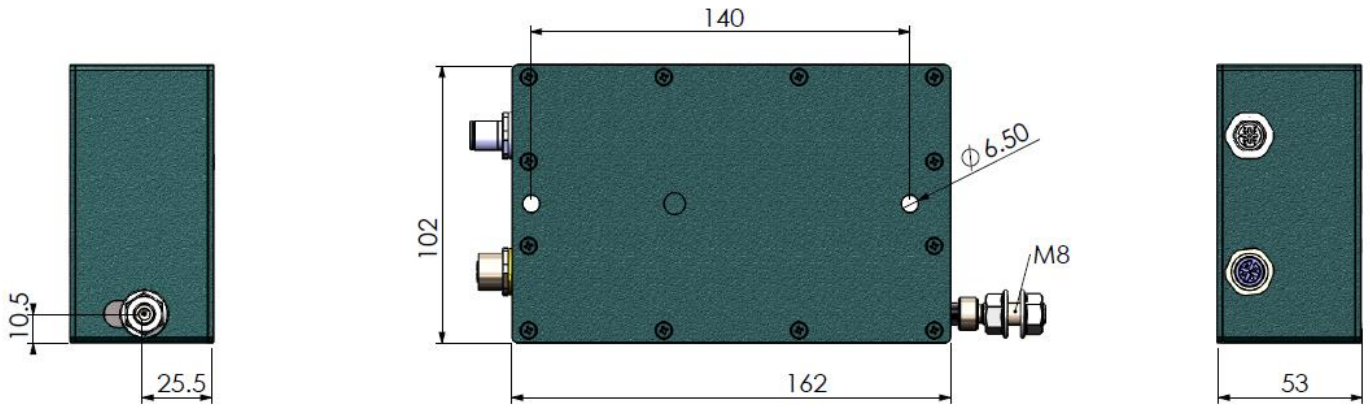
ELETRICAL DATA

Measuring Range (stroke)	2500mm or 5000mm		
Mesuring Type	Potentiometric		
Output Signal Type	Potentiometric	Analog: 0-10V / 4-20mA	CANopen
Resistance	5 KΩ (standard), 10 KΩ	-	-
Supply Voltage	42V max.	12...30 VDC	10...30 VDC
Linearity	±%0.5 FS		
Electrical Connection	M12 connector or cable		

CANopen SPECIFICATIONS

Resolution	23 Bit
Communication profile	CiA 301
Device Type	CANopen, CiA DS406
Node ID	Between 1 and 127, it can be adjusted with LSS or SDO
Baud Rate	10 kBit/s, 20 kBit/s, 50 kBit/s, 100 kBit/s, 125 kBit/s, 250 kBit/s, 500 kBit/s, 800 kBit/s, 1 Mbit/s
PDO Data Rate	500 ms
Error Control	Heartbeat, Emergency Message
PDO	2 Tx PDO
PDO Modes	Event/Time triggered, Synch/Asynch
SDO	1 server
Position Information	Object Dictionary 6004
Termination Resistance	Optional, specify at the order stage.

MECHANICAL DIMENSIONS (mm)



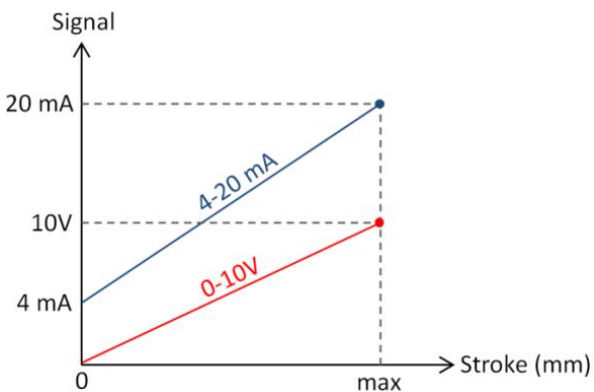
ELECTRICAL CONNECTIONS

Analog or Potentiometric

0-10V or Pot Connection		
Signal	Cable Color	M12 5 pin connector
Earth	Silver	Pin 1
+V	Red	Pin 2
0V	Black	Pin 3
0-10V / Pot	Yellow	Pin 4
-	-	Pin 5

4-20 mA Connection		
Signal	Cable Color	M12 5 pin connector
Earth	Silver	Pin 1
+V	Red	Pin 2
-	-	Pin 3
4-20 mA	Yellow	Pin 4
-	-	Pin 5

- * 1 pcs M12 5 pin male connector is used as standard for single output models
- * Redundant models have two outputs. 1 pcs M12 5 pin male and 1 pcs M12 5 pin female sockets are used as standard.
- * Different socket models can be requested optionally.

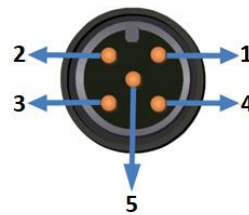


CANopen

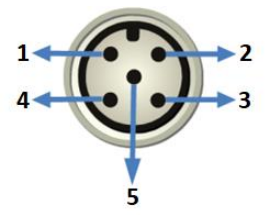
Signal	Cable Color	M12 5 pin connector
CAN_SHIELD	Silver (mesh)	Pin 1
+V (10...30 VDC)	Red	Pin 2
GND (0V)	Black	Pin 3
CAN_H	Yellow	Pin 4
CAN_L	Green	Pin 5

- * CANopen models have 2 outputs. 1 pcs M12 5 pin male and 1 pcs M12 5 pin female sockets are used as standard.
- * Different socket models can be requested optionally.

M12 5 Pin Male Connector

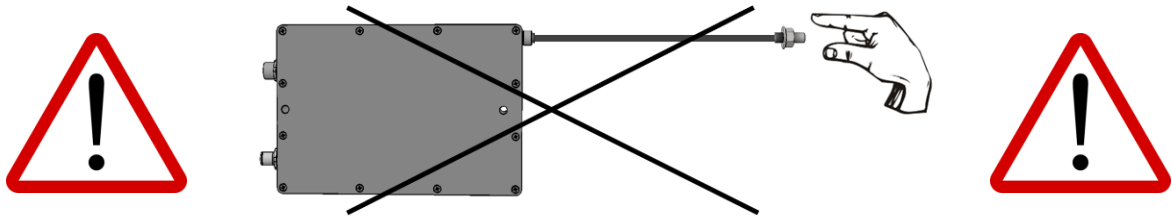


M12 5 Pin Female Connector

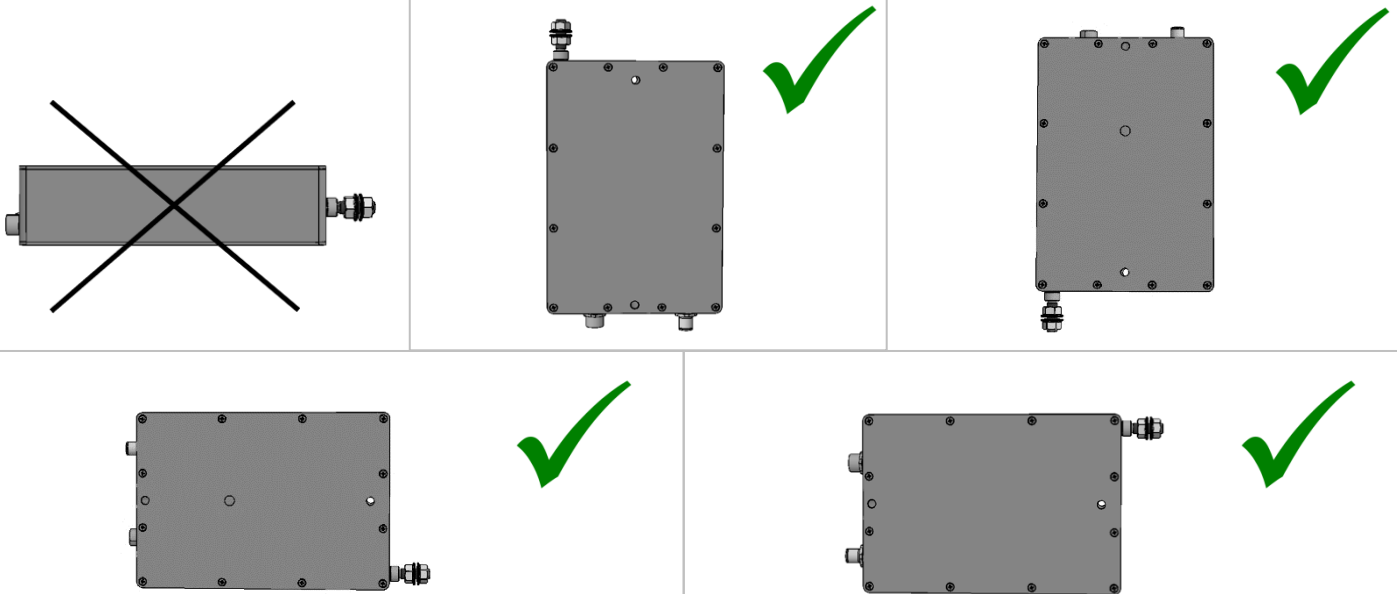


MOUNTING AND WARNINGS

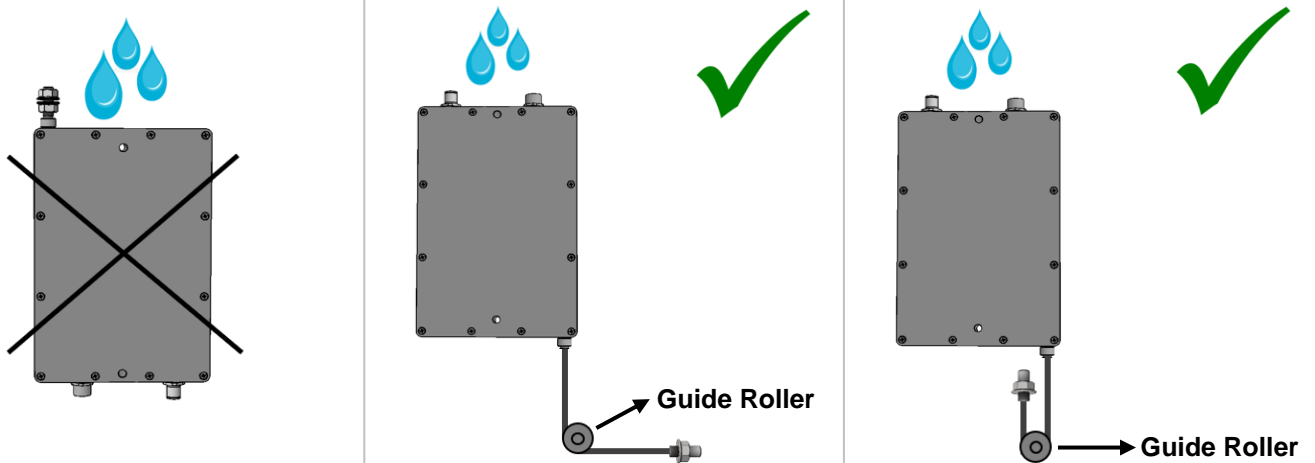
1. Never release the wire after pulling. Otherwise, the coil spring will be damaged.



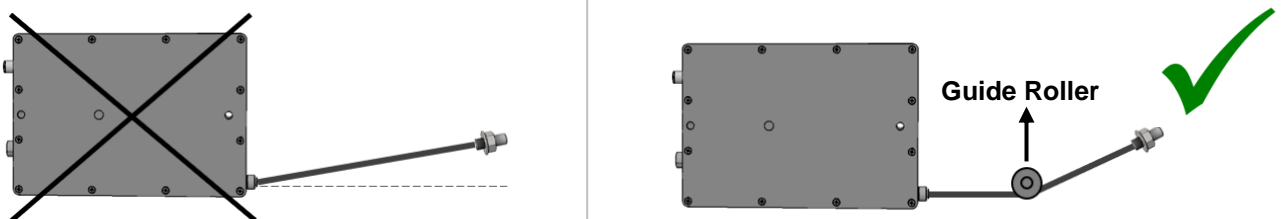
2. Mount the sensor according to the mounting directions shown below.



3. If there is a trickle of water (like a rain), the wire outlet must not be a drip of water upstream. If needed please use guide rollers.



4. The wire should not be pulled in angular. If needed, please use guide rollers.



Important Note(!): Failure to comply with these recommendations, the malfunctions that may occur will not be under the warranty.

