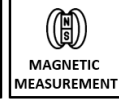




GENERAL FEATURES

- 0...300 mm stroke (measuring) length
- 6µm high resolution
- ±%0.25 FS linearity
- CANopen interface
- IP67 protection class
- 2 m/s maximum speed
- Şok / vibrasyona dirençli yapı
- Stainless steel measuring wire
- Aluminum body
- Compact design
- Easy mounting



AWP 110 HR series high resolution draw wire sensors work as absolute. They make measurement by pulling and rewinding stainless steel wire. They have 0...300 mm stroke (measuring) length. They convert linear motion to CANopen output. Thanks to its high IP67 protection class, they can work in harsh ambient conditions.

TECHNICAL FEATURES

Mechanical Features

Stroke (measuring) Length	0...300 mm
Required Force	5 N
Max Speed	2 m/s
Linearity	±%0.25 FS
Weight	≈ 460 gr
Protection Class	IP67
Operating Temp.	-20°C ... +85 °C
Relative Humidity	%10 ... %90
Material	Body: Aluminum Measuring Wire: Stainless Steel

Electrical Features

Working Principle	Hall Effect
Supply Voltage	15 ... 30 VDC
Current Consumption	60 mA
Reverse Polarity Protection	Yes, there is
Resolution	6µm
Response Frequency	500 Hz
Electrical Interface	CANopen
Electrical Connection	M12 / 5 pin male connector

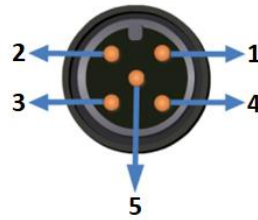
CANopen Features

Communication Profile	CiA 301
Device Type	CANopen, CiA DS406
ID (Node ID)	It can be set from 1 to 127 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	100 ms
Error Control	Heartbeat, Emergency Message
PDO	3 Tx PDO
PDO Modes	Event/Time triggered, Synch/Asynch
SDO	1 server
Position Information	Object Dictionary 0x6020
Termination Resistance	Optional

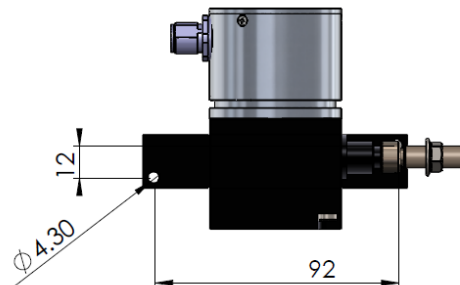
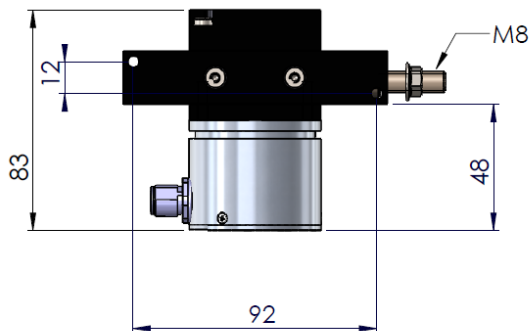
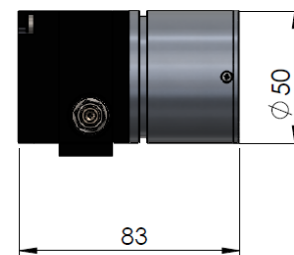
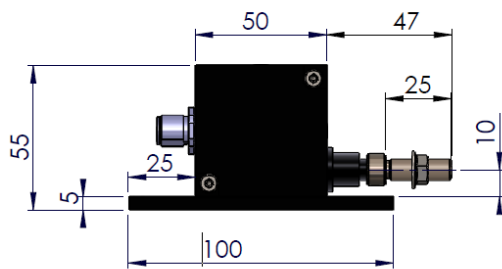
ELECTRICAL CONNECTIONS

When voltage is applied to the product, it should never be connected or disconnected, otherwise this may cause damage to the device.

Signal	M12/ 5 Pin Male Connector
CAN_SHIELD	Pin 1
V+ (15...30VDC)	Pin 2
GND (0V)	Pin 3
CAN_H	Pin 4
CAN_L	Pin 5

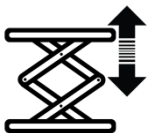


MECHANICAL DIMENSIONS (mm)



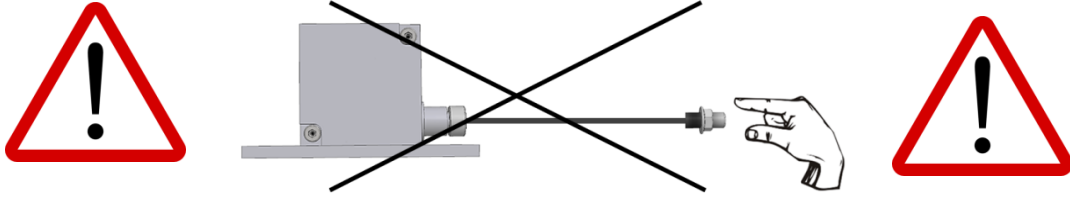
SAMPLE APPLICATION FIELDS

- 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



MOUNTING AND WARNINGS

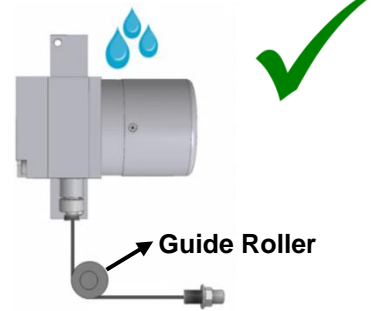
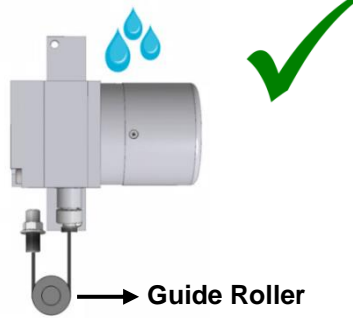
1. Never release the wire after pulling. Otherwise, the coil spring will be damaged.



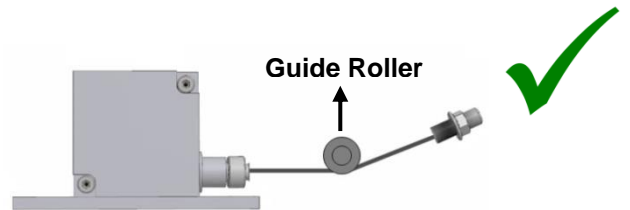
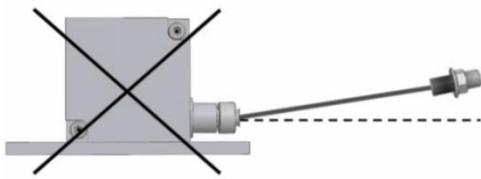
2. Mount the sensor according to the mounting directions shown below.



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.

PRODUCT CODE

Model		Stroke Length		Output Signal
AWP 110 HR	XX	0300 : 0 ...300 mm	XXXX	C : CANopen
	Resolution 06 : 6µm		Electrical Connection S13M : M12 5 pin male connector	X

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