

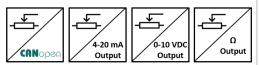
# DRAW WIRE SENSOR

"High strength stainless steel wire"



## **GENERAL FEATURES**

- Different stroke (measuring) lengths between 0...2000 mm and 0...5100 mm
- ±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
- Compact design
- Easy installation
- 2 m/s maximum speed
- Shock/Vibration resistant
- Aluminum anodized body



AWP 810 series draw wire sensors; consists of a rotary potentiometer which is controled by stainless steel wire. They make measurement by pulling and rewinding stainless steel wire. Different stroke (measuring) lengths between 0...2000 mm and 0...5100 mm are available. They converts 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 non-standard measuring lengths, cable length or socket model can be requested.

TECHNICAL SPECIFICATIONS			
	Different measuring lengths between	Maximum Speed	2 m/s
5	Length 02000 mm and 05100 mm	Required Force	12N
*Connection Cable Length		*Resistance	5 KΩ (standard), 10 KΩ
*Supply Voltage CANopen output model: 1	"A" and "V" models: 1230 VDC	Measuring Type	Potentiometric
	Potentiometric output model: 42V Materials	Housing: Aluminum/steel /plastic	
	max.		Measuring Wire: Stainless steel
*Output Signals	Potentiometric 0-10 VDC 4-20 mA	IP Protection Class	IP54
		Operating	-25°C +85°C
	CANopen	Relative Humudity	%95
	(Optionally Redundant Output)	Weight	≈2200 gr
Linearity	±0.5% FS		

Note: The technical specifications indicated by (\*) vary according to the selected model. The detailed code table is shown on page 4.

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.	

# **ELECTRICAL CONNECTION**

CAN H

### Analog

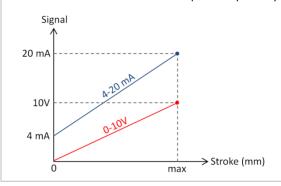
0-10V or POTENTIOMETER Connection			
Signal	Cable Color	M12 5 pin socket	
Earth	Silver	Pin 1	
+V	Red	Pin 2	
0V	Black	Pin 3	
0-10V / Pot	Yellow	Pin 4	
-	-	Pin 5	

4-20 mA Connection			
Signal	Cable Color	M12 5 pin socket	
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.



Signal	Cable Color	M12-5 Pin Socket
CAN_SHIELD	Silver (mesh)	Pin 1
+V (1030 VDC)	Red	Pin 2
GND (0V)	Black	Pin 3

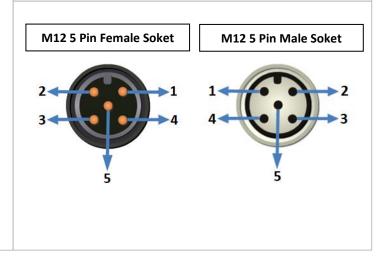
CANopen

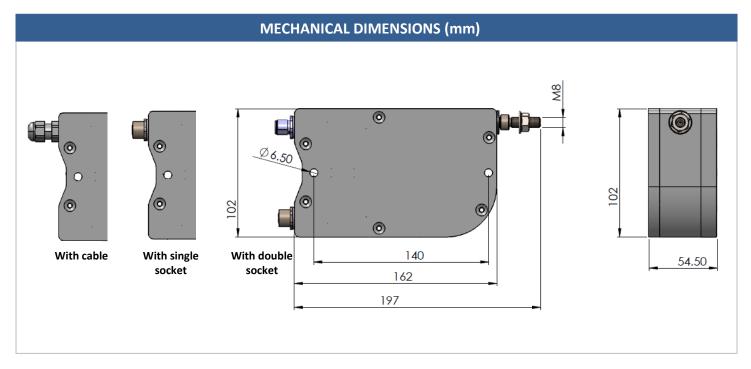
Pin 4

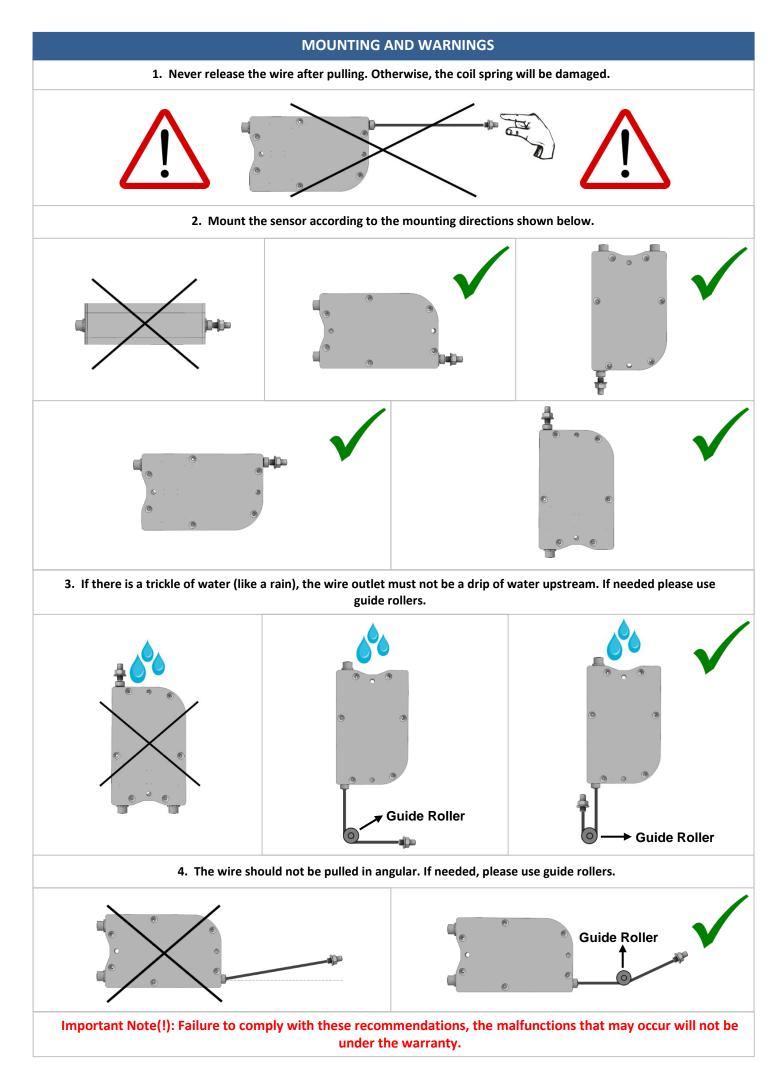
CAN_L	Green	Pin 5	
* CANopen models have 2 outputs. 1 pcs M12 5 pin male and 1 pcs M12 5 pin female sockets are used as standard.			

\* Different socket models can be requested optionally.

Yellow







#### SAMPLE APPLICATION FIELDS

- Elevators
- Press machines
- Crane systems
- Wood processing machines
- Marble processing machines
- Storage positioning
- Dam protections
- Sluice gate control
- Air compressors





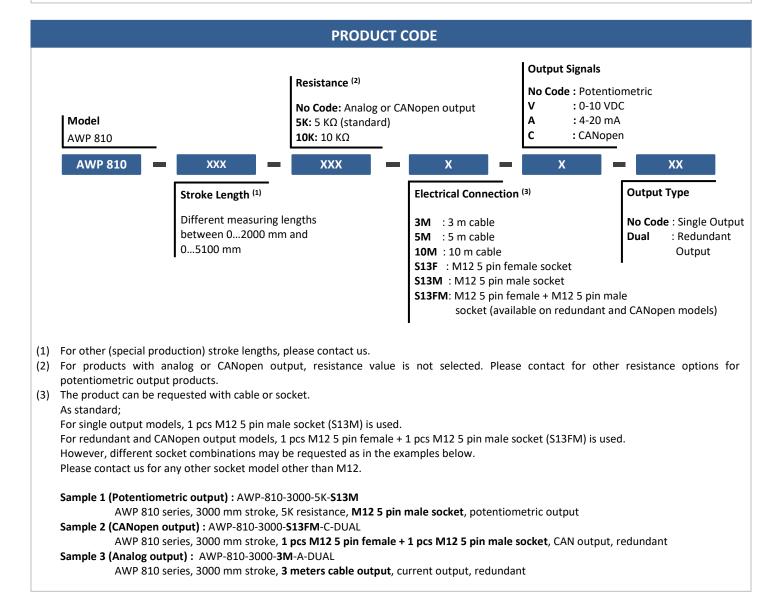
- Glass processing machines
- Lifting platforms
- Applications in medical technologies (operating table etc.)
- Forklifts
- Screw machines
- Paper machines
- Sewing machines
- Hydraulic machines



- Sheet metal machines •
- **Printing machines**
- Horizontal control equipments
- **Construction machines**
- Industrial robots
- Injection machines
- X-Y axis displacement
- Liquid level measurements and position control

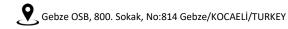


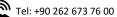




PRC Technologies Corp., Ltd. Tel: 02 530 1714, 02 530 1619, 02 530 1621 Fax: 02 530 1731 Email: info@prctechth.com, www.prctechth.com

Atek Elektronik Sensör Teknolojileri Sanayi ve Ticaret A.Ş.





Tel: +90 262 673 76 08



www.ateksensor.com

info@ateksensor.com