



DRAW WIRE SENSOR

"High strength stainless steel wire"

AWP 404



GENERAL FEATURES

- Different stroke (measuring) lengths between 0...1000 mm and 0...4200 mm
- ±0.1% FS linearity
- Potentiometric, 0-10 VDC, 4-20 mA or CANopen output options
- Redundant output option
- IP67 protection class
- Compact design and easy installation
- 2 m/s maximum speed
- Shock/vibration resistant

Aluminum body



AWP 404 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. They converts linear motion to potentiometric output.

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

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

TECHNICAL SPECIFICATIONS

*Stroke (measuring)	Different measuring lengths between	*Resistance	5 KΩ (standard), 10 KΩ	
Length	01000 mm and 04200 mm	Measuring Type	Potentiometric	
*Supply Voltage	"A" and "V" models: 1230 VDC	Materials	Housing: Aluminum/plastic	
	CANopen output model: 1030 VDC	waterials	Measuring Wire: Stainless steel	
	Potentiometric output model: 42V max.	IP Protection Class	IP67	
*Output Signals	Potentiometric 0-10 VDC 4-20 mA CANopen	*Electrical Connection	Analog: 3x0,14 mm ² shielded cable or M12 socket CANopen: 6x0,34 mm ² twisted shielded cable or M12 5 pin male socket + M12 5	
	(Optionally Redundant Output)		pin female socket	
Linearity	±0.1% FS	Operating Temp.	-25°C +85°C	
Maximum Speed	2 m/s	Relative Humudity	%95	
Required Force	5N	Weight	≈1400gr	

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.	
DC AWD 019 D No.2		

ELECTRICAL CONNECTIONS

Analog

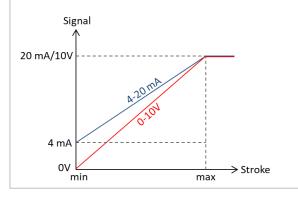
0-10V or POTENTIOMETER Connection				
Signal	Cable Color	M12 5 pin socket		
Earth	Silver	Pin 1		
+V	Red	Pin 2		
0V	Black	Pin 3		
0-10V / Pot	Yellow	Pin 4		
-	-	Pin 5		

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.

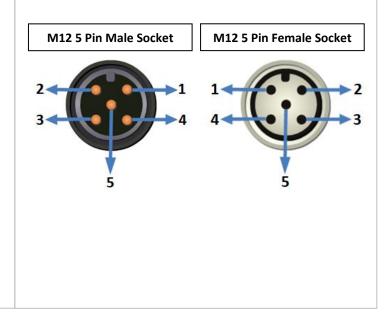
* Different socket models can be requested optionally.



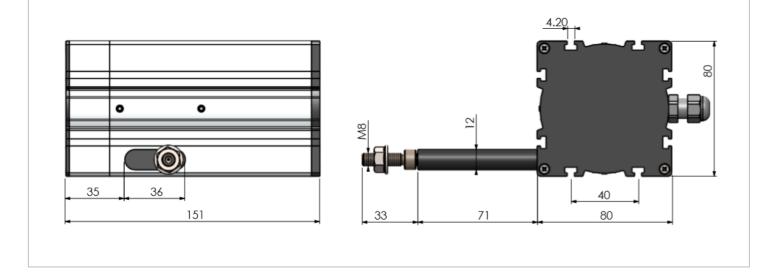
	CANopen		
Signal	Cable Color	M12-5 Pin Socket	
CAN_SHIELD	Silver (mesh)	Pin 1	
+V (1030 VDC)	Red	Pin 2	
GND (0V)	Black	Pin 3	
CAN_H	Yellow	Pin 4	
CAN_L	Green	Pin 5	

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

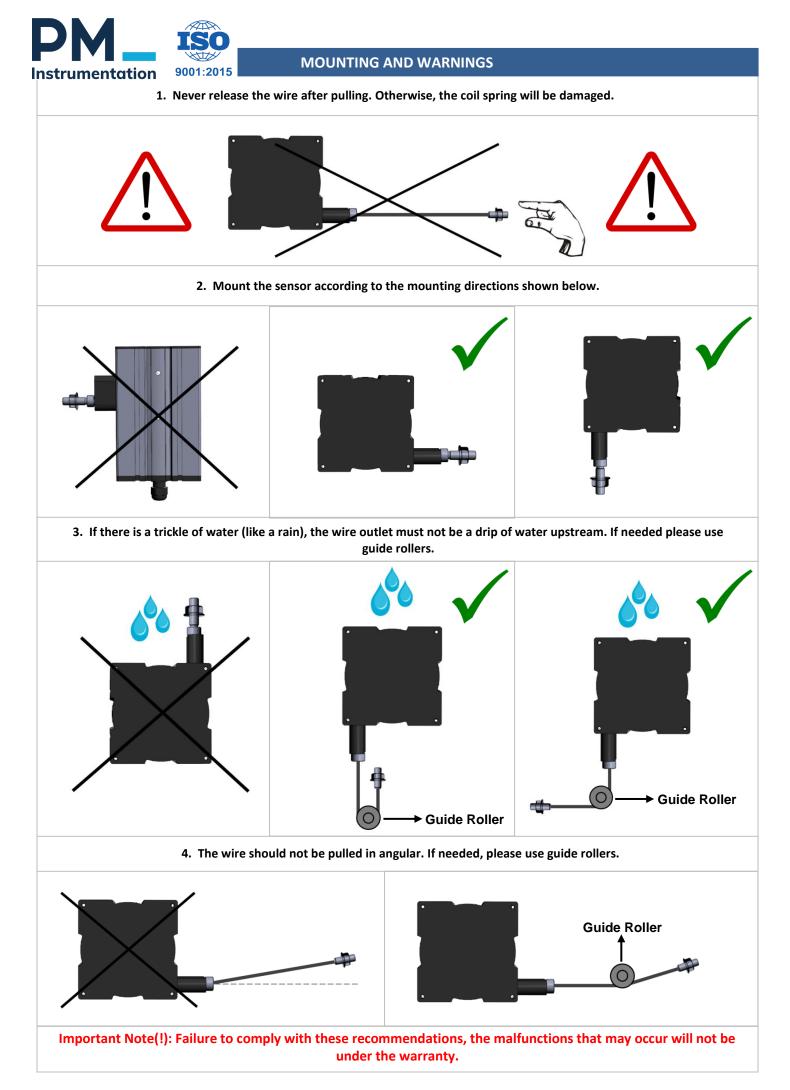
* Different socket models can be requested optionally.



MECHANICAL DIMENSIONS (mm)



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Elevators

Press machines

Crane systems

Storage positioning

Sluice gate control

Dam protections

Air compressors

Wood processing machines

Marble processing machines

ISO 9001:2015

SAMPLE APPLICATION FIELDS

- 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

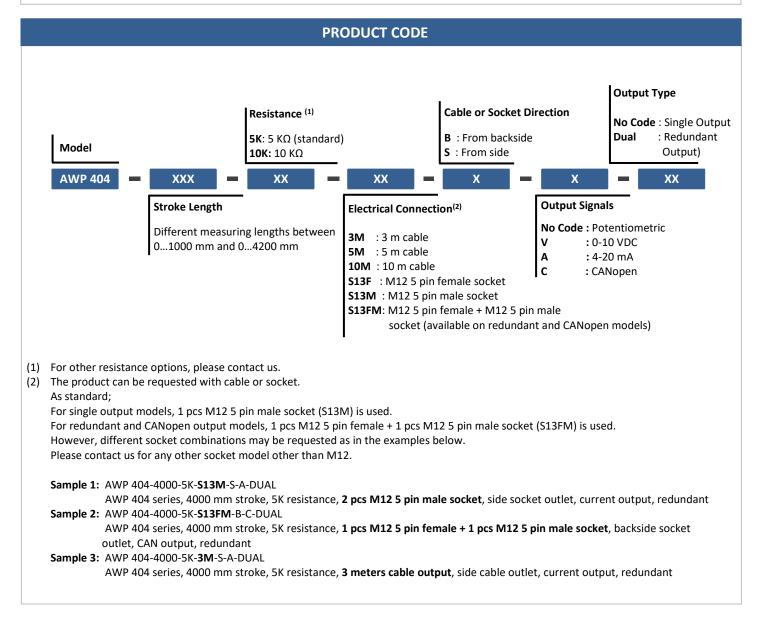












Atek Sensor Technologies

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