

DRAW WIRE SENSOR

AWP 508



OUTPUT



- Different stroke (measuring) lengths between 0...4000 mm and 0...8000 mm ٠
- ±0.5% FS linearity •

LONG SERVICE

LIFE

Potentiometric, 0-10 VDC, 4-20 mA or CANopen output options ٠

OUTPUT

- Redundant output option ٠
- IP54 protection class (Optional IP67) ٠

POTENTIOMETRIC

MEASUREMENT

- Compact design and easy installation •
- 2 m/s maximum speed •
- Shock/vibration resistant •
- Aluminum body •

AWP 508 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, analog or CANopen output.

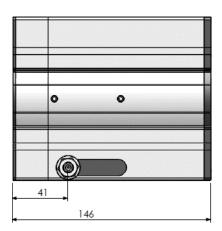
Optionally, redundant output, different cable length or socket model can be requested.

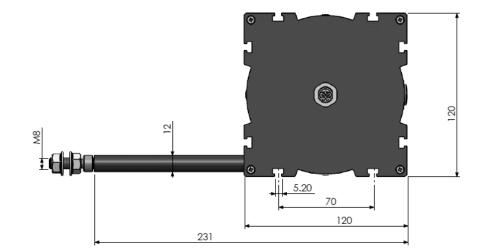
MECHANICAL DATA

Mechanical and Environmental Data									
Stroke (measuring) Length	Different measuring lengths between 04000 mm and 08000 mm								
Linearity	±0.5% FS								
Maximum Speed	2 m/s								
Required Force	10N								
Protection Class	IP54 (Optional IP67)								
Operating Temp.	-25°C +85°C								
Relative Humudity	%95								
Materials	Body	Aluminum/plastic							
	Measuring Wire	Stainless steel							

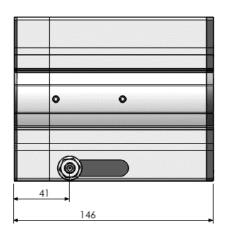
MECHANICAL DIMENSIONS (mm)

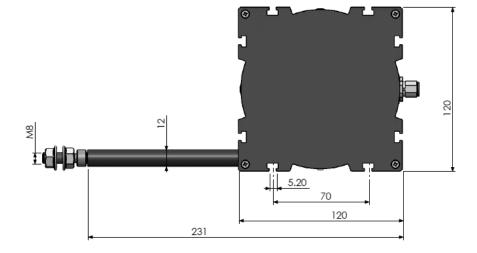
M12 Connector Output From Backside





M12 Connector Output From Side





Cable Output From Backside

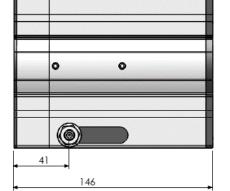
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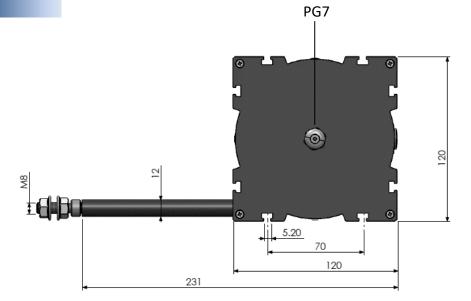
Cable Output From Side

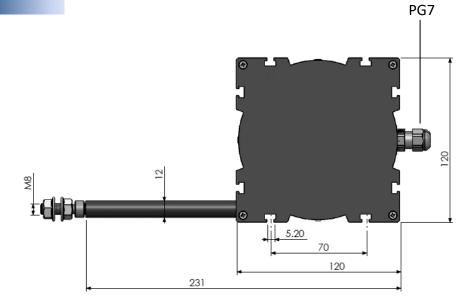
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ELECTRICAL DATA

ANALOG OUTPUT

Measuring Type	Potentiometric								
Output Signals	Potentiometric 0 10 V 4 20 mA								
Resistance	5 KΩ (standard), 10 KΩ								
Supply Voltage	42V max. 1230 VDC 1230 VDC								
Reverse polarity protection	Yes								
Short circuit protection	Yes								
Electrical Connection	3x0,14 mm ² shielded cable or M12 connector (optional others)								

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

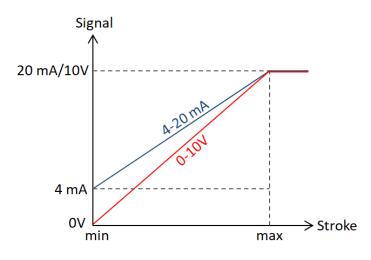
4-20 mA Connection							
Signal	Cable Color	M12 5 male connector					
Earth	Silver	Pin 1					
+V	Red	Pin 2					
-	-	Pin 3					
4-20 mA	Yellow	Pin 4					
-	-	Pin 5					

* 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.



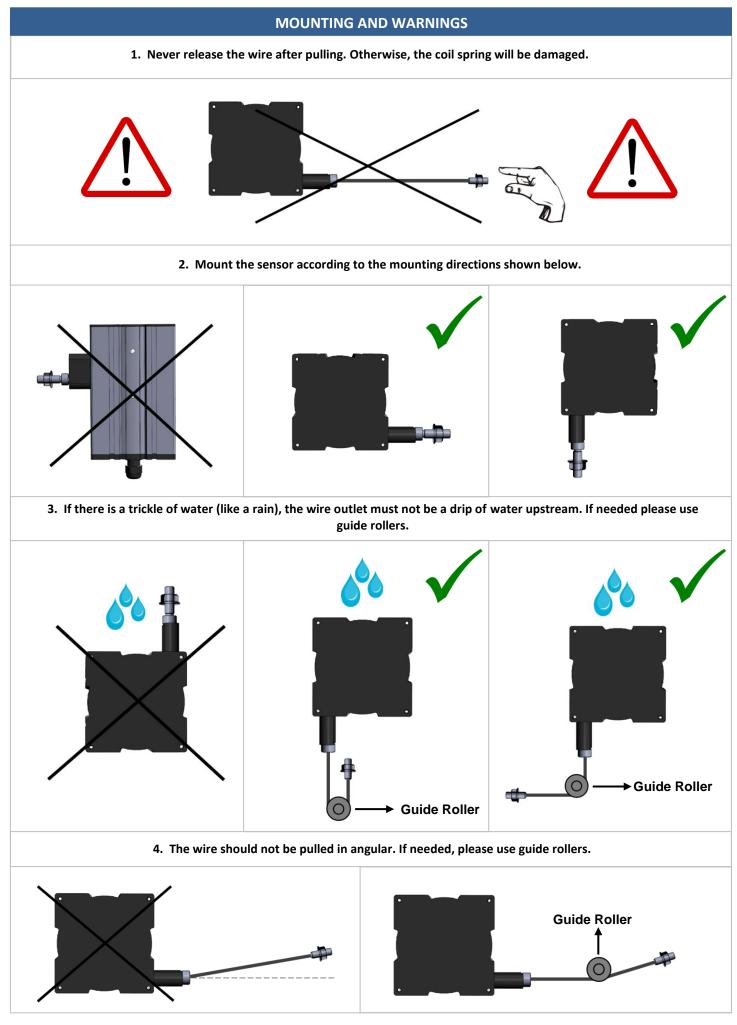
CANopen OUTPUT

Measuring Type	Potentiometric
Device Type	CANopen, CiA DS406
Communication profile	CiA 301
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
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.
Supply Voltage	1030 VDC
Reverse polarity protection	Yes
Short circuit protection	Yes
Electrical Connection	6x0,34 mm ² twisted shielded cable or M12 5 pin male + M12 5 pin female connector

*Click for CANopen EDS file.

Signal	Cable Color	M12 5 pin male connector	M12 5 pin female connector					
	Cilcum (an each)		_					
CAN_SHIELD	Silver (mesh)	P	in 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.



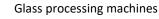
Important Note(!): Failure to comply with these recommendations, the malfunctions that may occur will not be under the warranty.

SAMPLE APPLICATION FIELDS

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







- Lifting platforms
- Applications in medical technologies (operating table etc.)
 Forklifts
- FOIKIILS

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- Screw machinesPaper machines
- Faper machines
- Sewing machines
- Hydraulic machines





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control

Sheet metal machines

Construction machines

Horizontal control equipments

Liquid level measurements and position

Printing machines

Industrial robots

Injection machines

X-Y axis displacement



ORDER CODE

			Resistance ⁽¹⁾								Output Type			
No Code: Ana output 5K: 5 KΩ (star 10K: 10 ΚΩ		ndard) E		Cable or Socket Direction B : From backside S : From side			No Code : Single Output Dual : Redundant Output)		dant					
AWP 508 -	XXXX	-	XXX	-	XXX	-	Х	-		Х	-	XXXX	-	XXXX
	Stroke Length	Electrical Connection				on ⁽²⁾		Output Signals					Protection Class	
Different measuring lengths between 04000 mm and 08000 mm				 3M : 3 m cable 5M : 5 m cable 10M : 10 m cable S13F : M12 5 pin female conn. S13M : M12 5 pin male conn. S13FM: M12 5 pin female + M12 5 pin Conn (available on redundant) 			V : 0-10 VDC IP67 : IP67 A : 4-20 mA C : CANopen				No code : IP54 (std) IP67 : IP67			

- (1) For products with analog or CANopen output, resistance value is not selected. Please contact for other resistance options for potentiometric output products.
- (2) The product can be requested with cable or socket.

As standard;

For single output models, 1 pcs M12 5 pin male socket (S13M) is used.

For redundant and CANopen output models, 1 pcs M12 5 pin female + 1 pcs M12 5 pin male socket (S13FM) is used. However, different socket combinations may be requested as in the examples below. Please contact us for any other socket model other than M12.

Sample 1 (Potentiometric output): AWP 508-5000-5K-S13M-S

AWP 508 series, 5000 mm stroke, 5K resistance, M12 5 pin male socket, side socket outlet, potentiometric output Sample 2 (CANopen output): AWP 508-5000-S13FM-B-C-DUAL

AWP 508 series, 5000 mm stroke, **1 pcs M12 5 pin female + 1 pcs M12 5 pin male socket**, backside socket outlet, CAN output, redundant

Sample 3 (Analog output): AWP 508-5000-3M-S-A-DUAL

AWP 508 series, 5000 mm stroke, 3 meters cable output, side cable outlet, current output, redundant