

DRAW WIRE SENSOR

"High Resolution, Programmable Output, IP67 Protection"

AWP 110 HR



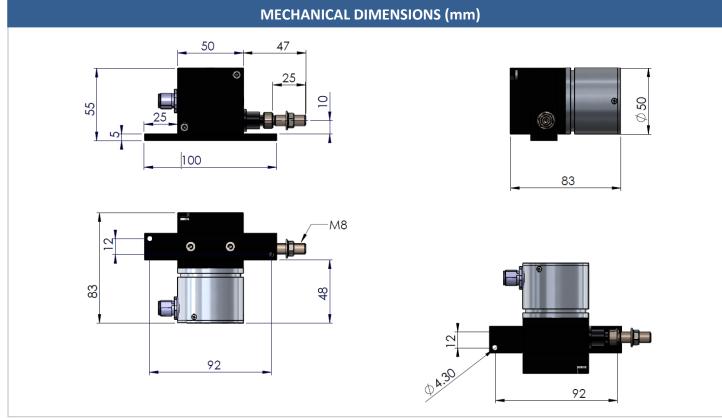
GENERAL FEATURES

- Different stroke (measuring) lengths up to 1200 mm
- High resolution
- ±%0.25 FS linearity
- Analog or CANopen interface
- Thanks to the teachi-in feature, the minimum and maximum measurement limits can be adjusted on the sensor
- IP67 protection class
- 2 m/s maximum speed
- Shock/vibration resistant
- Robust aluminum housing and stainless steel measuring wire
- Compact design

AWP 110 HR series high resolution draw wire sensors work as absolute. They make measurement by pulling and rewinding stainless steel wire. The have stroke (measuring) lengths up to 1200mm. They converts linear motion to analog or CANopen output. Thanks to its high IP67 protection class, they can work in harsh ambient conditions.

MECHANICAL DATA

Stroke (measuring) Length	For analog output: 4001200 mm For CANopen output: 01200 mm	
Required Force	5 N	کانون ابزار
Max Speed	2 m/s	
Linearity	±%0.25 FS	تلفن:
Weight	≈ 460 gr	.040
Protection Class	IP67	041 88 29 29 00
Operating Temperature	-20°C +85 °C	
Relative Humudity	%10 %90	0917 IFV M07M
Matarial	Body: Aluminum	
Material	Measuring Wire: Stainless Steel	ali5.ir



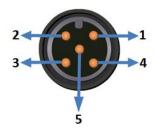
ANALOG VERSION

Electrical Features

Measuring Range	4001200 mm
Working Principle	Hall Effect
Output Signal	Voltage: 0-10V, 0.5-4.5V, 0-5V Current: 4-20 mA
Signal charasteristics	Increasing (exmp: 4-20 mA) Decreasing (exmp:20-4 mA)
Supply Voltage	15 26 VDC
Current Consumption	≤60 mA
Output load	For current output; min 250 Ω For voltage output; min 1 K Ω
Resolution	16 bit
Response Frequency	500 Hz
Reverse Polarity Protection	Yes
Short circuit protection	Yes (only supply)
Electrical Connection	M12 / 5 pin male connector

Electrical Connection

Signal	Cable	M12 5 Pin Male Connector
V+ (1526 VDC)	Red	Pin 1
Analog output signal	Yellow	Pin 2
GND	Black	Pin 3
N/C	Green	Pin 4
N/C	Pink	Pin 5



Sipariş Kodu

				Electrical Conn	ection		
Model				S13M : M12 5 p	oin ma	le connec	ctor
AWP 110HR	-	XXXX	-	XXXX	-)	(X
		Stroke (Measuring) Le	ength			Analog	Output Signal
		Different stroke length	ns fro	m		v	: 0-10 VDC
		400 to 1200 mm				V1	: 0-5 VDC
						A	: 4-20 mA
						V3	: 0.5-4.5 VDC
						NV	: 10-0 VDC
						NV1	: 5-0 VDC
						NA	: 20-4 mA
						NV3	: 4.5-0.5 VDC

Electrical Connection

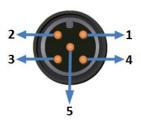
ANALOG VERSION, PROGRAMMABLE

Electrical Features

Measuring Range	4001200 mm
Working Principle	Hall Effect
Output Signal	Voltage: 0-10V, 0.5-4.5V, 0-5V (programmable) Current: 4-20 mA (programmable)
Signal charasteristics	Increasing (exmp: 4-20 mA) Decreasing (exmp:20-4 mA)
Supply Voltage	15 26 VDC
Current Consumption	≤60 mA
Output load	For current output; min 250 Ω For voltage output; min 1 KΩ
Resolution	16 bit
Response Frequency	500 Hz
Reverse Polarity Protection	Yes
Short circuit protection	Yes (only supply)
Electrical Connection	M12 / 5 pin male connector

Electrical Connection

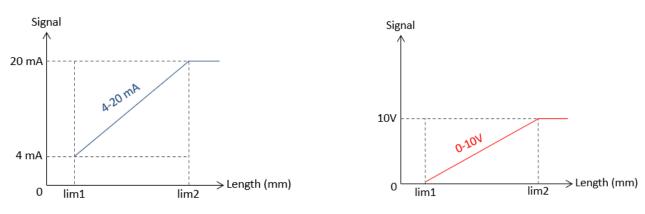
Signal	Cable	M12 5 Pin Male Connector
V+ (1526 VDC)	Red	Pin 1
Analog output signal	Yellow	Pin 2
GND	Black	Pin3
N/C	Green	Pin 4
SPAN/ZERO	Pink	Pin 5



SETTING MEASUREMENT LIMITS: With this feature, you can set the minimum and maximum measurement limits.

In order to determine the **minimum measurement limit (lim1)**, the SPAN/ZERO and GND terminal are short-circuited for at least 3 seconds. In order to determine the **maximum measurement limit (lim2)**, the SPAN/ZERO and GND terminal are short-circuited for at least 6 seconds. To **return to the factory settings**, the SPAN/ZERO and GND terminal are short-circuited for at least 10 seconds.

SAMPLE SIGNAL OUTPUT GRAPHICS



Order Code

			Electrical Conn	ection				Programming Feature
Model			S13M : M12 5	oin ma	le connec	tor		PL: Programmable
AWP 110HR -	XXXX	-	XXXX	-		XX	-	XX
	Stroke (Measuring)	.ength			Analog	Output Signal		
	Different stroke leng from 400 to 1200 mr				V: V1: A: V3: NV: NV1:	0-10 VDC 0-5 VDC 4-20 mA 0.5-4.5 VDC 10-0 VDC 5-0 VDC		
DS-AWP.028 Rev No:3					NA: NV3:	20-4 mA 4.5-0.5 VDC		

CANopen VERSION

Electrical Features

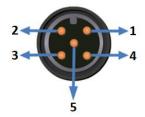
Measuring Range	01200 mm
Working Principle	Hall Effect
Supply voltage	1230 VDC
Current consumption	≤60 mA
Reverse polarity protection	Yes
Short circuit protection	Yes (only supply)
Response frequency	500 Hz
Resolution	бµm
Electrical connection	M12 5 pin male connector

CANopen Features

Communication Profile	CiA 301
Device Type	CANopen, CiA DS406
Node ID	Adjustable 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 120Ω

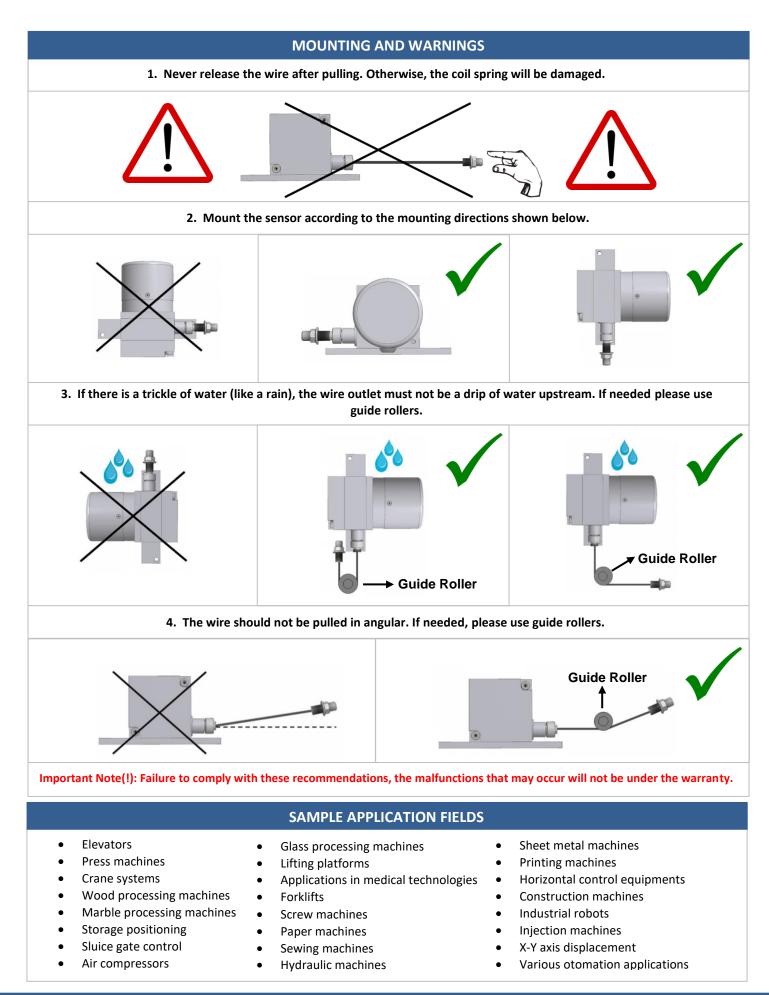
Electrical Connection

Signal	Cable	M12/ 5 Pin Male Connector
CAN_SHIELD	CAN SHIELD	Pin 1
V+ (1230VDC)	Red	Pin 2
GND (0V)	Black	Pin 3
CAN_H	Yellow	Pin 4
CAN_L	Green	Pin 5

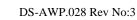


Order Code

				Electrical Connection			
Model				S13M : M12 5 p	oin ma	le connector	
AWP 110HR	-	XXXX	-	XXXX	-	Х	
		Stroke (Measuring) Le	ength			Output Signal	
		Different stroke lengtl 0 to 1200 mm	hs fro	m		C: CANopen	



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