

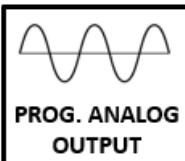
PROGRAMMABLE DRAW WIRE SENSOR

AWP 822

“Analog or CANopen Output,
High Accuracy, IP67 Protection”



MAGNETIC
MEASUREMENT



PROG. ANALOG
OUTPUT



CANopen
OUTPUT



HIGH
ACCURACY



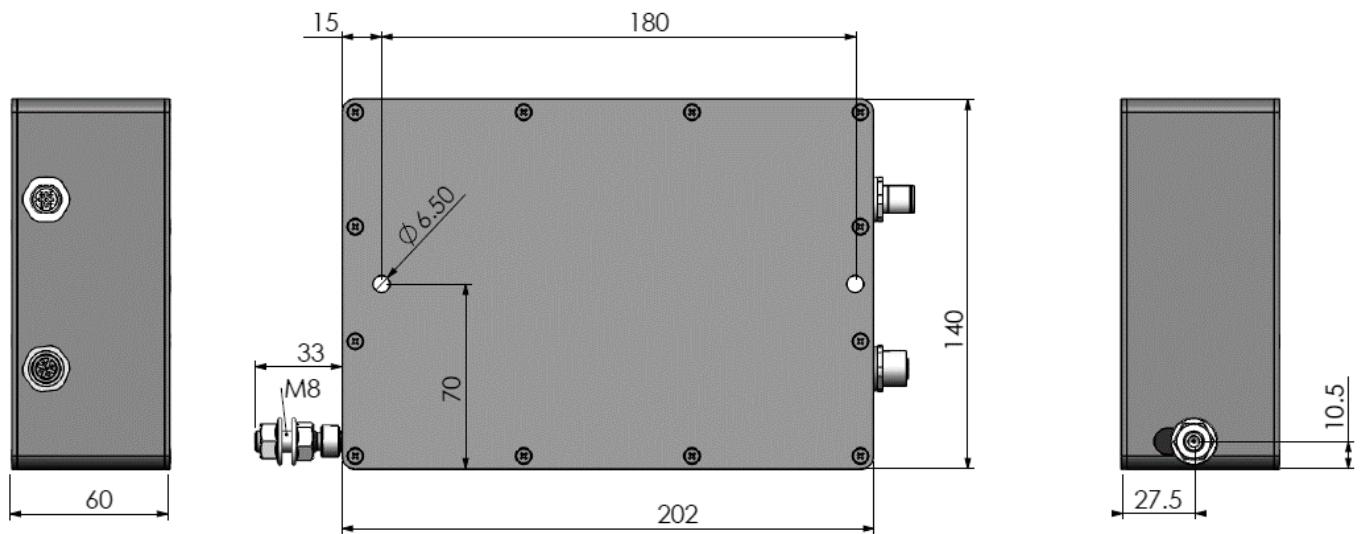
LONG SERVICE
LIFE

- Different stroke (measuring) lengths up to 8000 mm (optional other strokes)
- Magnetic absolute measurement technology
- Robust stainless steel measuring wire
- Aluminium housing
- Analog or CANopen output
- Programmable analog output option
- IP67 protection class
- Compact design and easy mounting
- 1 m/s maximum movement speed
- Shock/vibration resistant

MEKANİK VERİLER

Measuring Range (stroke)	Different measuring lengths up to 8000 mm (optional other strokes)
Max. Movement speed	1 m/s
Extension Force	12N
Protection Class	IP67
Operating Temperature	-40°C...+85°C
Material	Body: Aluminium Measuring wire: Stainless steel

MECHANICAL DIMENSIONS (mm)



TECHNICAL DATA

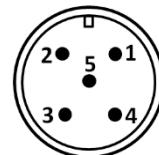
ANALOG VERSION

Electrical Specifications

Measuring range	Different measuring lengths up to 8000 mm (optional other strokes)
Supply voltage	15...26 VDC
Current consumption	≤60 mA
Reverse polarity protection	Yes
Short circuit protection	Yes (only supply)
Response frequency	500 Hz
Resolution	0.05 mm
Linearity	±0.5 FS
Output signal	Voltage: 0-10V, 0.5-4.5V, 0-5V Current: 4-20 mA
Signal characteristics	Increasing (exmp: 4-20 mA) Decreasing (exmp: 20-4 mA)
Sensing device	Magnetic absolute encoder
Electrical connection	M12 connector or cable

Electrical Connection

Signal	Cable	M12 / 5 pin male connector
V+ (15...26 VDC)	Red	Pin 1
Analog output signal	Yellow	Pin 2
GND	Black	Pin 3
N/C	Green	Pin 4
N/C	Pink	Pin 5



Order Code

Model	Electrical Connection			
	S13M: M12/5 pin male connector 2M: 2m cable *Optional others			
AWP 822	-	XXXX	-	XXXX
		Measuring Range		Analog Output Signal
		Different measuring lengths up to 8000 mm *Ask for other strokes		V : 0-10 VDC 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

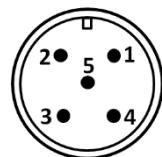
ANALOG VERSION, PROGRAMMABLE

Electrical Specifications

Measuring range	Different measuring lengths up to 8000 mm (optional other strokes)
Supply voltage	15...26 VDC
Current consumption	≤60 mA
Reverse polarity protection	Yes
Short circuit protection	Yes (only supply)
Response frequency	500 Hz
Resolution	0.05 mm
Linearity	±0.5 FS
Output signal	Voltage: 0-10V, 0.5-4.5V, 0-5V (programmable) Current: 4-20 mA (programmable)
Signal characteristics	Increasing (exmp: 4-20 mA) Decreasing (exmp: 20-4 mA)
Sensing device	Magnetic absolute encoder
Electrical connection	M12 connector or cable

Electrical Connection

Signal	Cable	M12 / 5 pin male connector
V+ (15...26 VDC)	Red	Pin 1
Analog output signal	Yellow	Pin 2
GND	Black	Pin 3
N/C	Green	Pin 4
SPAN/ZERO	Pink	Pin 5



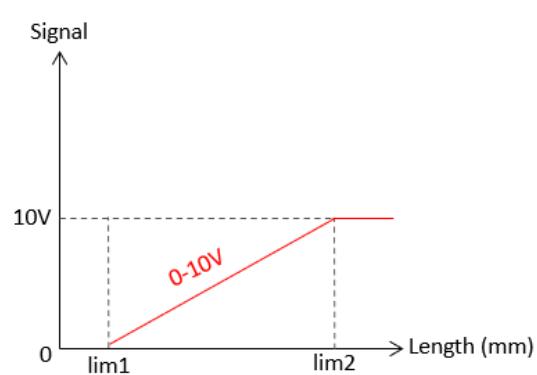
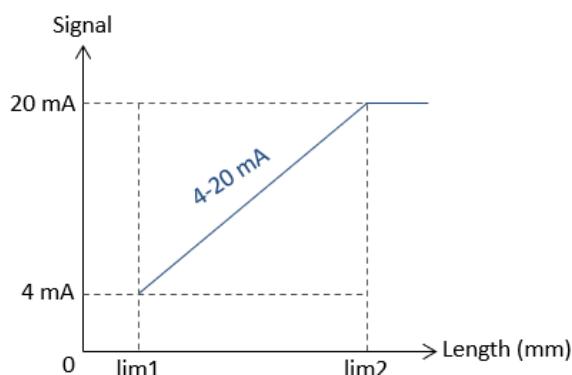
SETTING MEASUREMENT LIMITS: With this feature, you can set the minimum and maximum measurement limits.

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 Connection

S13M: M12/5 pin male connector

2M: 2m cable

*Optional others

Programming Feature

PL: Programmable

Model

AWP 822

XXXX

XXXX

XX

XX

Measuring Range

Different measuring lengths up to 8000 mm

*Ask for other strokes

Analog Output Signal

V : 0-10 VDC

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

CANopen VERSION

Electrical Specifications

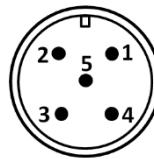
Measuring range	Different measuring lengths up to 8000 mm (optional other strokes)
Supply voltage	12...30 VDC
Current consumption	≤60 mA
Reverse polarity protection	Yes
Short circuit protection	Yes (only supply)
Response frequency	500 Hz
Resolution	50µm
Linearity	±%0.5 FS
Sensing device	Magnetic absolute encoder
Electrical connection	M12 connector or cable

CANopen Specifications

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+ (12...30VDC)	Red	Pin 2
GND	Black	Pin 3
CAN_H	Yellow	Pin 4
CAN_L	Green	Pin 5

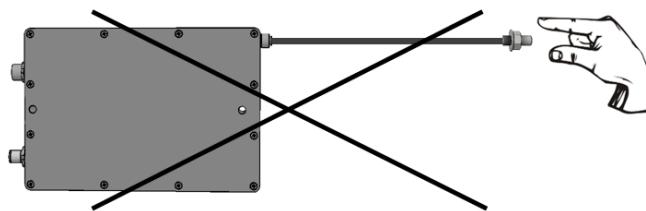


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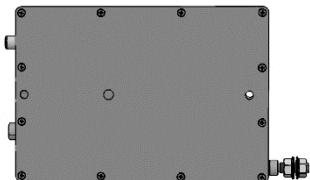
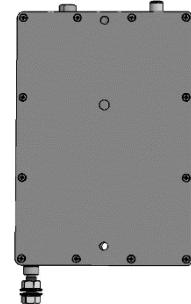
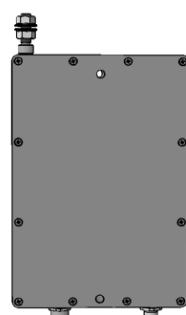
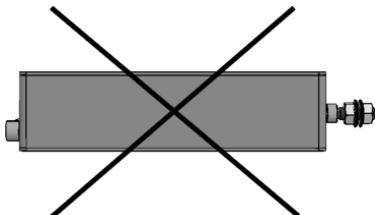
Model	Electrical Connection				
	S13M: M12/5 pin male connector 2M: 2m cable *Optional others				
AWP 822	-	XXXX	-	XXXX	-
		Measuring Range		Output Signal	
		Different measuring lengths up to 8000 mm *Ask for other strokes		C : CANopen	

MOUNTING AND WARNINGS

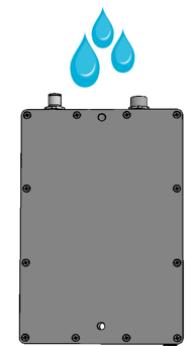
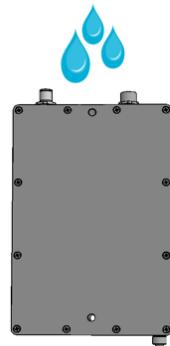
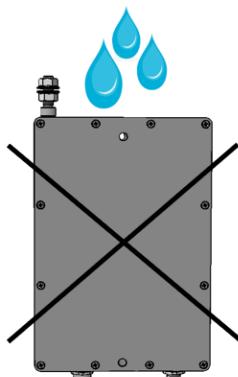
1. Never release the wire after pulling. Otherwise, the coil spring will be damaged.



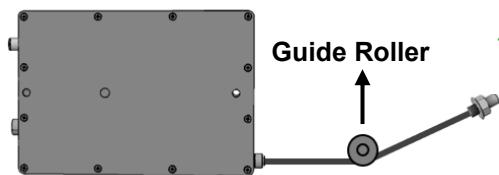
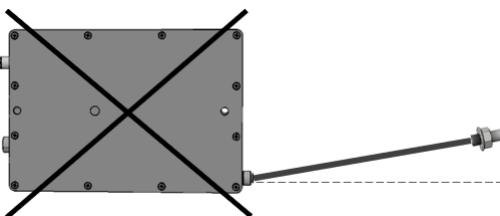
2. Mount the sensor according to the mounting directions shown below.



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.