DRAW WIRE SENSOR

"Analog or CANopen Output, High Accuracy"

AWP706

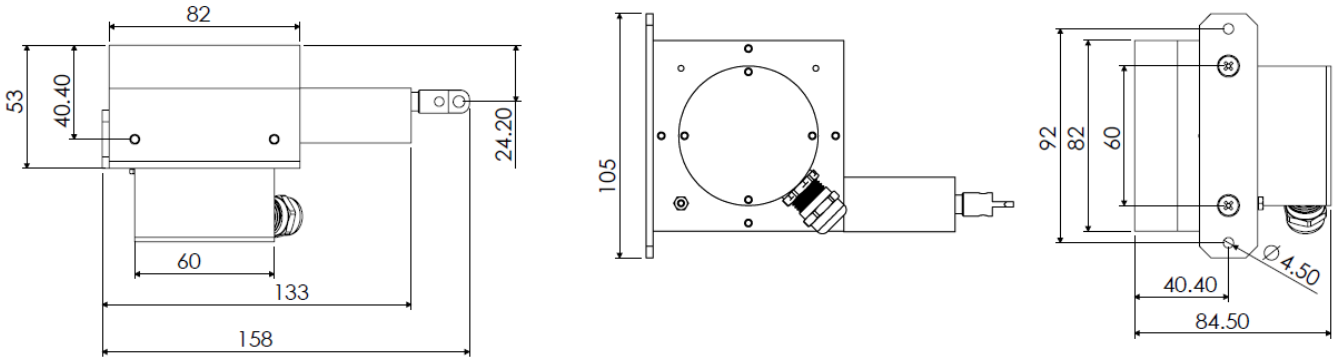
- 6000 mm measuring range
- Magnetic absolute measurement technology
- 3-way mounting possibility
- Robust stainless steel measuring wire
- Aluminium housing
- Analog or CANopen output
- Programmable analog output option
- IP67 protection class
- Compact design and easy mounting
- 1 m/s maximum movement speed
- Shock/vibration resistant

MECHANICAL DATA

Measuring Range (stroke)	Up to 6000 mm
Max. Movement speed	1 m/s
Extension Force	8N
Protection Class	IP67
Operating Temperature	-40°C...+85°C
Material	Body: Aluminium
	Measuring wire: Stainless steel

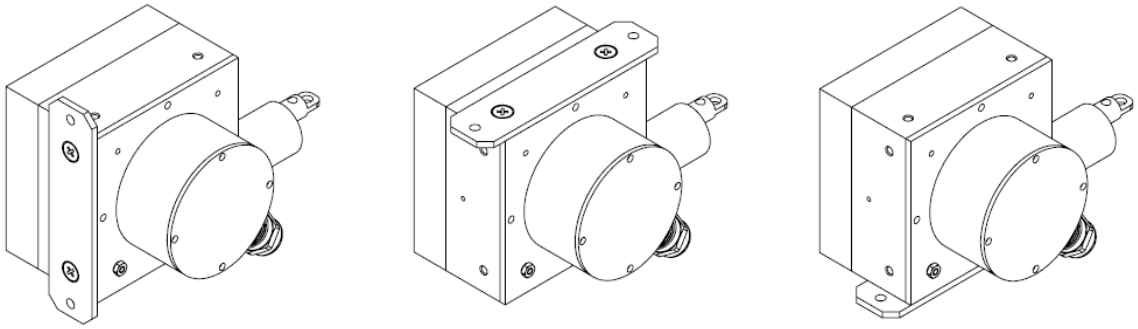
MECHANICAL DIMENSIONS & MOUNTING

MECHANICAL DIMENSIONS (mm)



MOUNTING OPTIONS

1 pc mounting plate and 2 pcs M4 screws are supplied with the product. The mounting plate is fixed by the user with screws to any of the 3 surfaces of the body as shown below. Thus, the user can mount the product in the desired direction.



TECHNICAL DATA

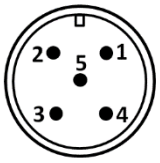
ANALOG VERSION

Electrical Specifications

Measuring range	Up to 6000 mm
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 charasteristics	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 706	-	XXXX	-	XXXX	-	XX

Measuring Range

Up to 6000 mm

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

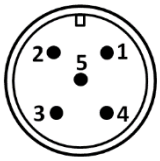
ANALOG VERSION, PROGRAMMABLE

Electrical Specifications

Measuring range	Up to 6000mm
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 charasteristics	Increasing (exmp: 4-20 mA) Decreasing (exmp:20-4 mA)
Sensing device	Magnetic absolute encoder
Electrical connection	M12 connector or cable

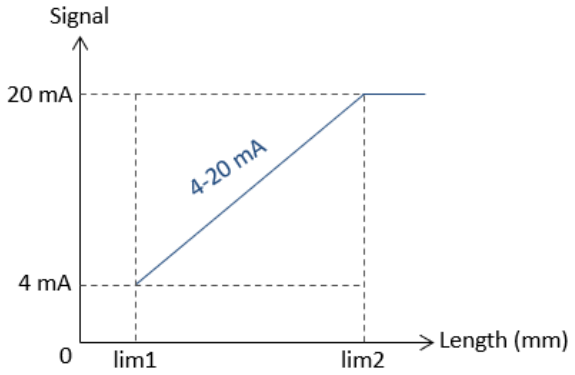
Electrical Connection

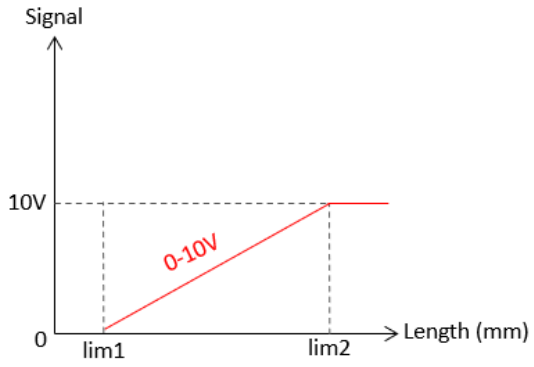
Signal	Cable	M12 / 5 pin male connector
V+ (15…26 VDC)	Red	Pin 1
Analog output signal	Yellow	Pin 2
GND	Black	Pin 3
N/C	Green	Pin 4
SPAN/ZERO	Pink	Pin 5



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

Model

Electrical Connection

S13M: M12/5 pin male connector
2M: 2m cable
*Optional others

Programming Feature

PL: Programmable

AWP 706	-	**XXXX**	-	**XXXX**	-	**XX**	-	**XX**

Measuring Range

Up to 6000 mm

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

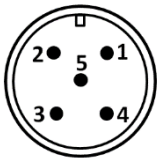
Measuring range	Up to 6000 mm
Supply voltage	12…30 VDC
Current consumption	≤60 mA
Reverse polarity protection	Yes
Short circuit protection	Yes (only supply)
Response frequency	500 Hz
Resolution	12.5 µm
Linearity	±%0.5 FS
Sensing device	Magnetic absolute encoder
Electrical connection	M12 connector or 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



Order Code

Model

Electrical Connection

S13M: M12/5 pin male connector
2M: 2m cable
*Optional others

AWP 706	-	XXXX	-	XXXX	-	X

Measuring Range

Up to 6000 mm

Output Signal

C : CANopen

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