

AWP 722

“Analog or CANopen Output,
High Accuracy, High Measuring Length”

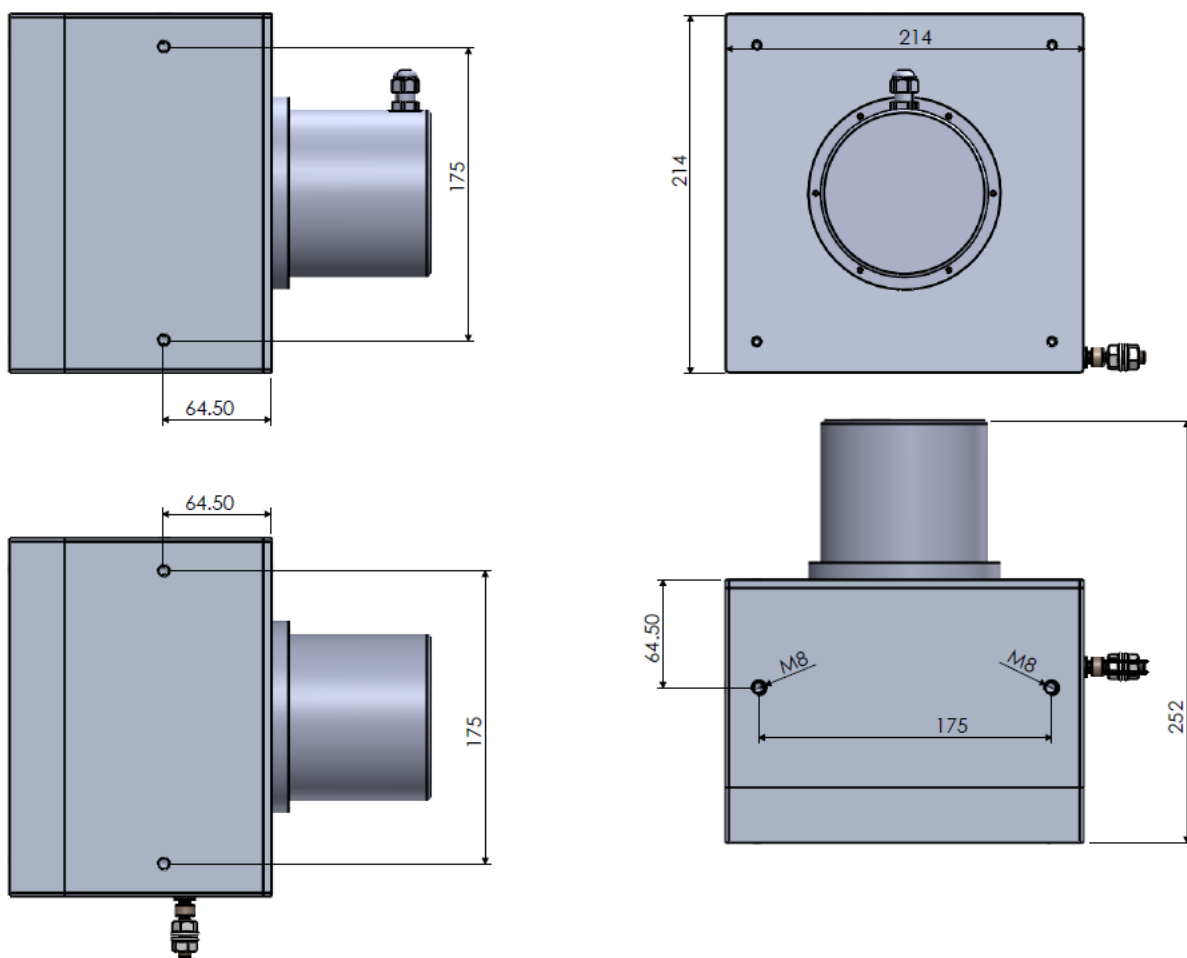


- Different stroke (measuring) lengths between 0...14000mm and 0...22000mm
- Magnetic absolute measurement technology
- Robust stainless steel measuring wire
- Aluminium housing
- Analog or CANopen output
- Programmable analog output option
- Standard IP53, optional IP67 protection class
- Compact design and easy mounting
- 1 m/s maximum movement speed
- Shock/vibration resistant

MECHANICAL DATA

Measuring Range(stroke)	Different measuring lengths between 0...14000mm and 0...22000mm
Max. Movement speed	1 m/s
Extension Force	12N
Protection Class	IP53 (optional IP67)
Operating Temperature	-40°C...+85°C
Material	Body: Aluminium
	Measuring wire: Stainless steel

MECHANICAL DIMENSIONS (mm)



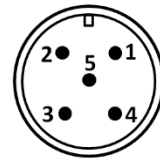
ANALOG VERSION

Electrical Specifications

Measuring range	Different measuring lengths between 0...14000mm and 0...22000mm
Supply voltage	15...26 VDC
Current consumption	≤60mA
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: 4-20mA
Signal characteristics	Increasing (exmp: 4-20mA) Decreasing (exmp: 20-4mA)
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
AWP 722 - XXXX - XXXX - XX	<p>Electrical Connection</p> <p>S13M: M12/5 pin male connector 2M: 2m cable *Optional others</p>
<p>Measuring Range</p> <p>Different stroke (measuring) lengths between 0...14000mm and 0...22000mm</p>	<p>Analog Output Signal</p> <p>V : 0-10VDC V1 : 0-5VDC A : 4-20mA V3 : 0.5-4.5VDC NV : 10-0VDC NV1 : 5-0VDC NA : 20-4mA NV3 : 4.5-0.5VDC</p>

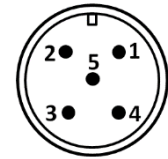
ANALOG VERSION, PROGRAMMABLE

Electrical Specifications

Measuring range	Different measuring lengths between 0...14000mm and 0...22000mm
Supply voltage	15...26VDC
Current consumption	≤60mA
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: 4–20mA(programmable)
Signal characteristics	Increasing (exmp: 4–20mA) 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



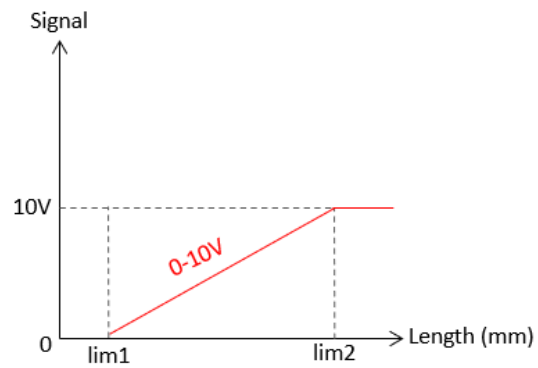
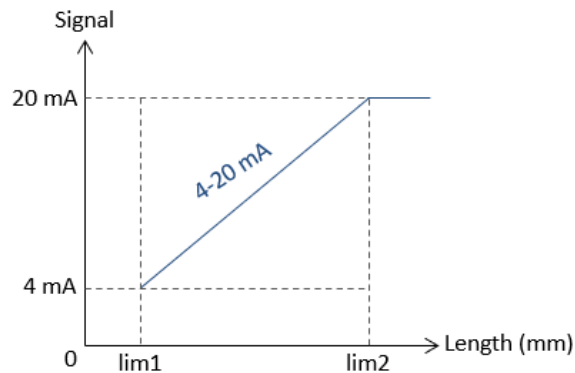
SETTING MEASUREMENT LIMITS: With this feature, you can set the minimum and maximum measurement limits.

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	Programming Feature
AWP 722 - XXXX - XXXX - XX - XX	S13M: M12/5 pin male connector 2M: 2m cable *Optional others	PL: Programmable

Measuring Range

Different stroke (measuring) lengths between 0...14000mm and 0...22000mm

Analog Output Signal

V : 0–10VDC
V1 : 0–5VDC
A : 4–20mA
V3 : 0.5–4.5VDC
NV : 10–0VDC
NV1 : 5–0VDC
NA : 20–4mA
NV3 : 4.5–0.5VDC

Electrical Specifications

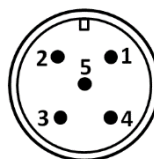
Measuring range	Different measuring lengths between 0...14000mm and 0...22000mm
Supply voltage	12...30VDC
Current consumption	≤60mA
Reverse polarity protection	Yes
Short circuit protection	Yes (only supply)
Response frequency	500 Hz
Resolution	50µm
Linearity	±%0.5 FS
Sensing device	Magnetic absolute 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
CANSHIELD	CANSHIELD	Pin 1
V+(12...30VDC)	Red	Pin 2
GND	Black	Pin 3
CAN_H	Yellow	Pin 4
CAN_L	Green	Pin 5



Order Code

Electrical Connection

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

Model

AWP 722	-	XXXX	-	XXXX	-	X
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Measuring Range

Different stroke (measuring) lengths between 0...14000mm and 0...22000mm

Output Signal

C: CANopen