

## AWP 722

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

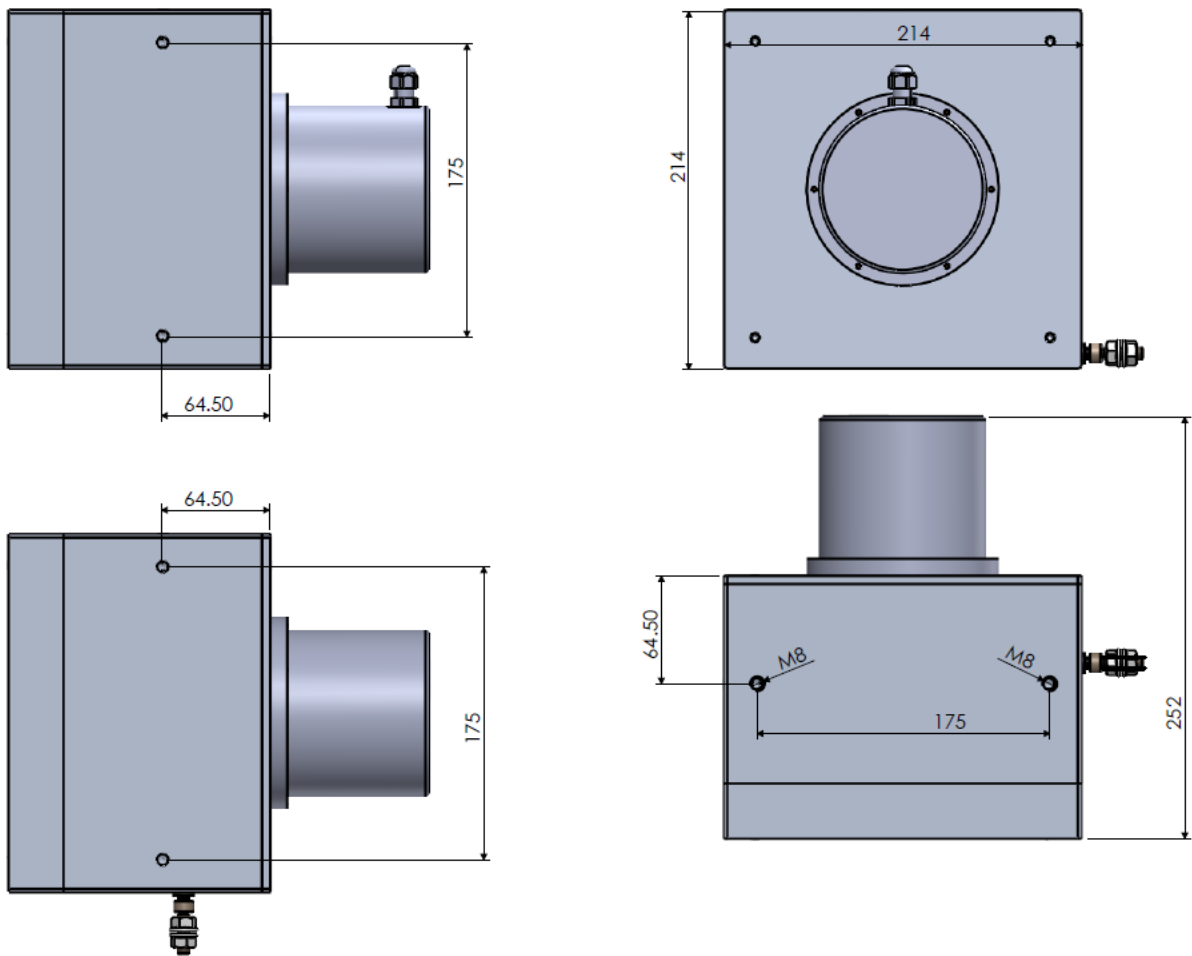


- Different stroke (measuring) lengths between 0...14000 mm and 0...22000 mm
- Magnetic absolute measurement technology
- Robust stainless steel measuring wire
- Aluminium housing
- Analog or CANopen output
- Programmable analog output option
- Standard IP53, optional IP67 protection class
- Compact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

## MECHANICAL DATA

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

## MECHANICAL DIMENSIONS (mm)



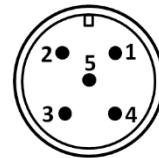
ANALOG VERSION

Electrical Specifications

Measuring range	Different measuring lengths between 0...14000 mm and 0...22000 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	±%0.3 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

Electrical Connection

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

Model

AWP 722	-	XXXX	-	XXXX	-	XX
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Measuring Range

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

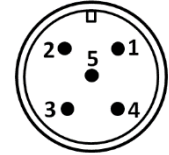
## ANALOG VERSION, PROGRAMMABLE

### Electrical Specifications

Measuring range	Different measuring lengths between 0...14000 mm and 0...22000 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	±%0.3 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



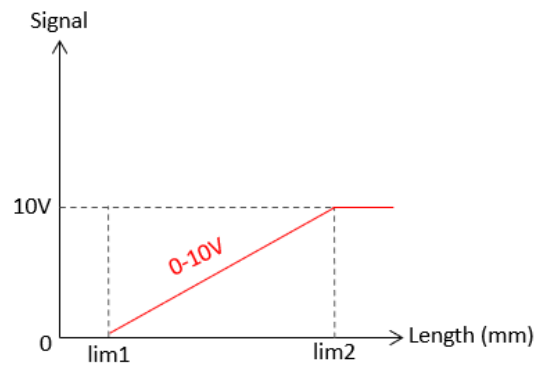
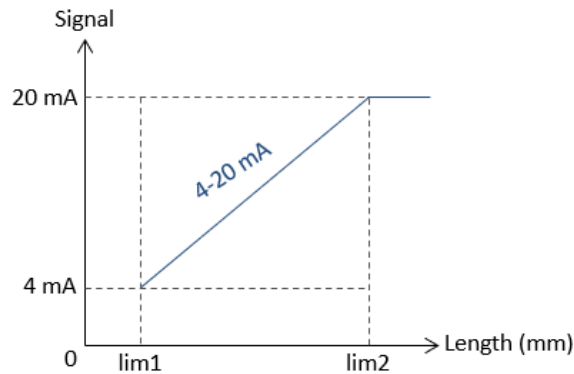
**SETTING MEASUREMENT LIMITS:** With this feature, you can set the minimum and maximum measurement limits.

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

Model	Electrical Connection	Programming Feature
AWP 722 - XXXX - XXXX - XX - XX	S13M: M12/5 pin male connector 2M: 2m cable *Optional others	PL: Programmable
<b>Measuring Range</b> Different stroke (measuring) lengths between 0...14000 mm and 0...22000 mm	<b>Analog Output Signal</b> 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

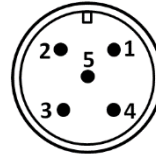
Measuring range	Different measuring lengths between 0...14000 mm and 0...22000 mm
Supply voltage	12...30 VDC
Current consumption	≤60 mA
Reverse polarity protection	Yes
Short circuit protection	Yes (only supply)
Response frequency	500 Hz
Resolution	50µm
Linearity	±%0.3 FS
Sensing device	Magnetic absolute 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				
AWP 722	-	XXXX	-	XXXX	-	X
Measuring Range				Output Signal		
Different stroke (measuring) lengths between 0...14000 mm and 0...22000 mm				C : CANopen		

#### Electrical Connection

**S13M:** M12/5 pin male connector

**2M:** 2m cable

\*Optional others