

# DRAW WIRE SENSOR

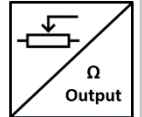
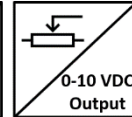
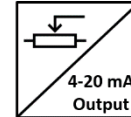
## "High strength stainless steel wire"

# AWP 210



### GENERAL FEATURES

- Different stroke (measuring) lengths between 0...1000 mm and 0...5000 mm
- $\pm 0.5\%$  FS linearity
- Potentiometric, 0-10 VDC or 4-20 mA analog output options
- Stainless steel measuring wire
- IP53 protection class
- Compact design
- Easy installation
- Shock/Vibration resistant
- Aluminum anodized body



AWP 210 series draw wire sensors; consists of a rotary potentiometer which is controlled by stainless steel wire. They make measurement by pulling and rewinding stainless steel wire. Different stroke (measuring) lengths between 0...1000 mm and 0...5000 mm are available. They convert linear motion to potentiometric output.

The "A" series, works with 24VDC supply and gives of 4-20 mA analog output with the help of the converter card.

The "V" series, works with 24VDC supply and gives of 0-10 VDC analog output with the help of the converter card.

Optionally, different non-standard measuring lengths, cable length or socket model can be requested.

### TECHNICAL SPECIFICATIONS

<b>*Stroke (measuring) Length</b>	Different stroke (measuring) lengths between 0...1000 mm and 0...5000 mm	<b>Required Force</b>	10 N
<b>*Connection Cable Length</b>	3m (standard), 5m, 10m	<b>*Resistance</b>	5 K $\Omega$ (standard), 10 K $\Omega$
<b>*Supply Voltage</b>	'A' ve 'V' models: 12...30 VDC Potentiometric output model: 42V max.	<b>Measuring Type</b>	Potentiometric
<b>*Output Signals</b>	Potentiometric 0-10 VDC 4-20 mA	<b>Materials</b>	Housing: Aluminum/steel / plastic Measuring Wire: Stainless steel
<b>Linearity</b>	$\pm 0.5\%$ FS	<b>IP Protection Class</b>	IP53
<b>Maximum Speed</b>	0.5 m/s	<b>Operating Temperature</b>	-25°C ... +85°C
		<b>Relative Humidity</b>	%95
		<b>Weight</b>	≈1900gr

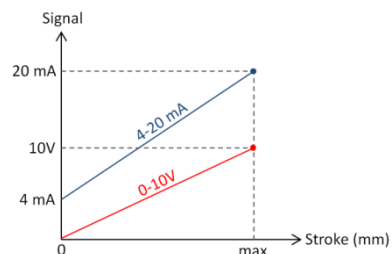
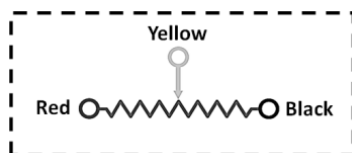
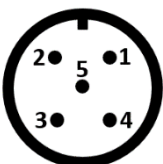
**Note:** The technical specifications indicated by (\*) vary according to the selected model. The detailed code table is shown on page 3.

### ELECTRICAL CONNECTION

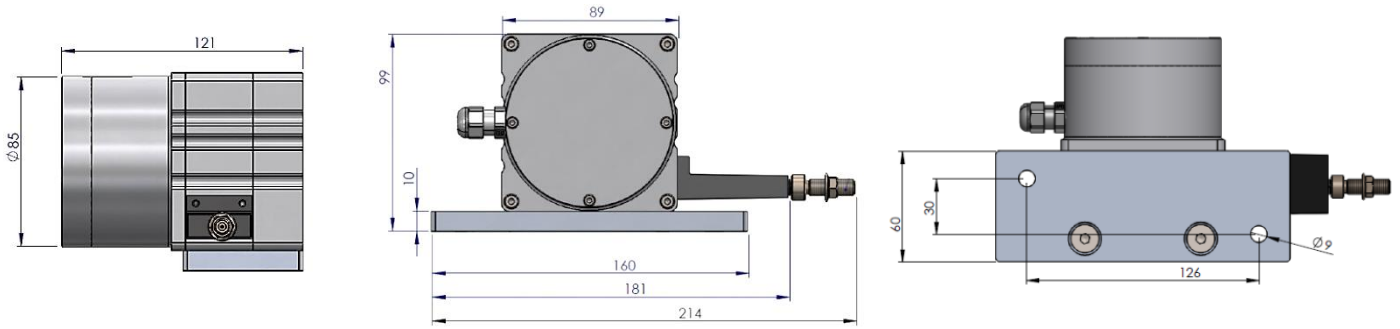
Never make or undo electrical connections to the sensor when voltage is applied, otherwise this may result in damage to devices.

0-10V or POTENTIOMETER Connection		
Signal	Cable Color	M12 5 pin male socket
Earth	Silver	Pin 1
+V	Red	Pin 2
0V	Black	Pin 3
0-10V / Pot	Yellow	Pin 4
-	-	Pin 5

4-20 mA Connection		
Signal	Cable Color	M12 5 pin male socket
Earth	Silver	Pin 1
+V	Red	Pin 2
-	-	Pin 3
4-20 mA	Yellow	Pin 4
-	-	Pin 5

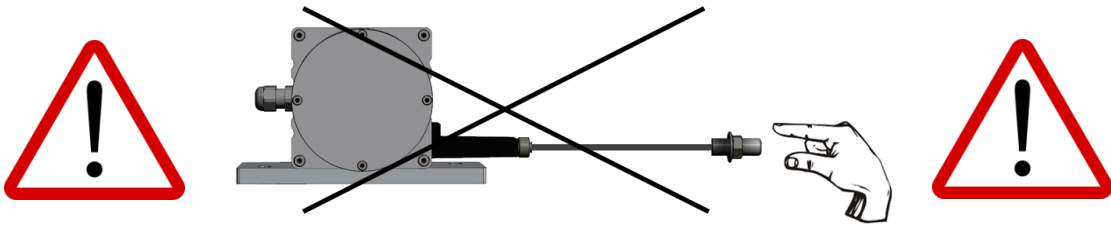


## DIMENSIONS

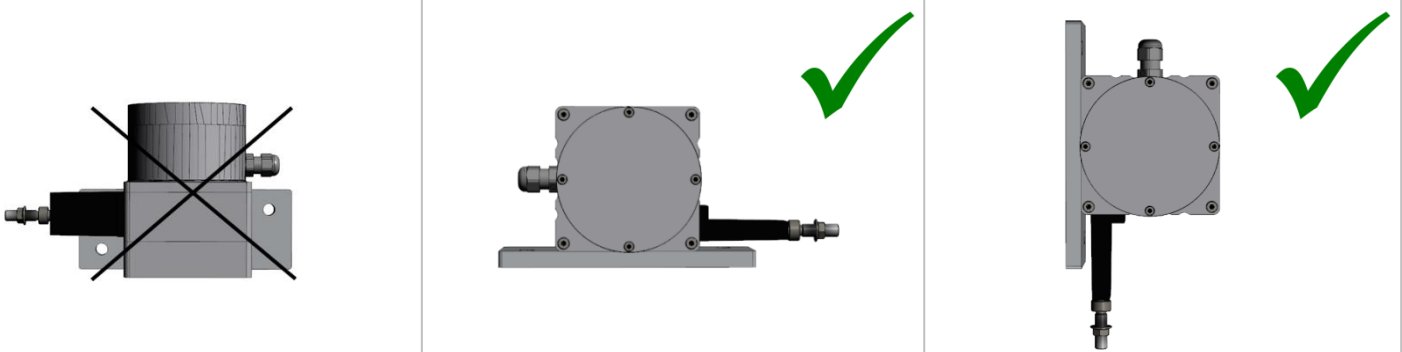


## MOUNTING AND WARNINGS

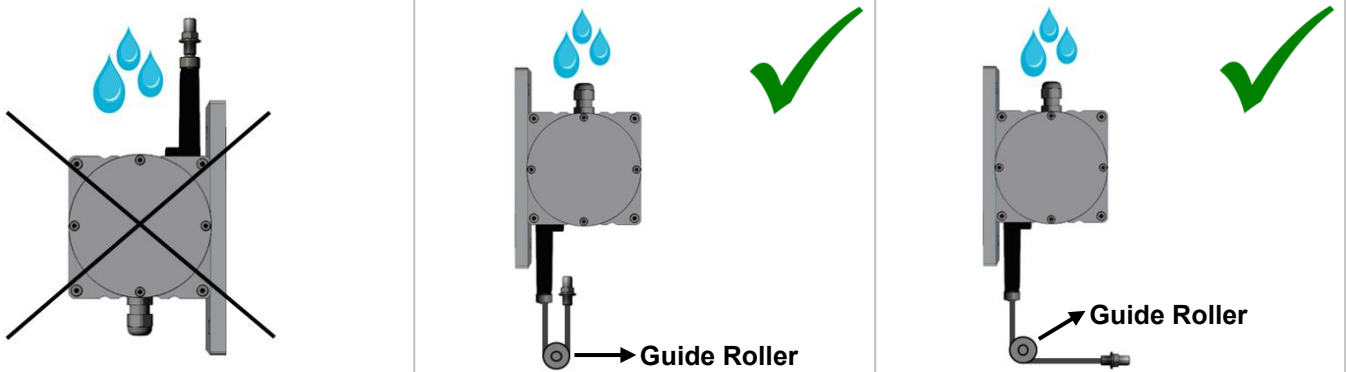
**1. Never release the wire after pulling. Otherwise, the coil spring will be damaged.**



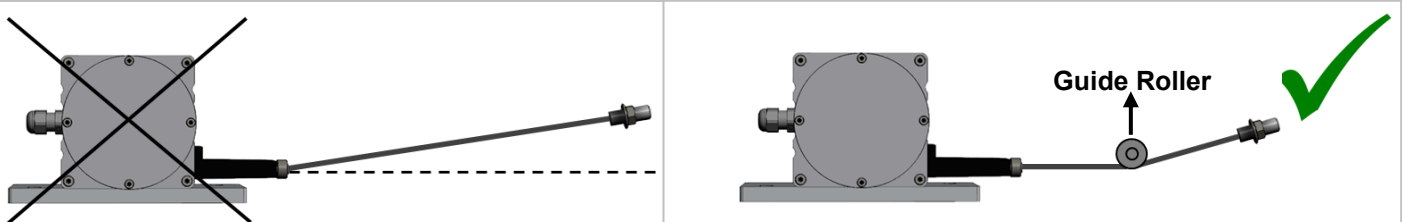
**2. Mount the sensor according to the mounting directions shown below.**



**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.**



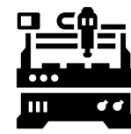
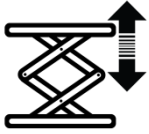
**4. The wire should not be pulled in angular. If needed, please use guide rollers.**



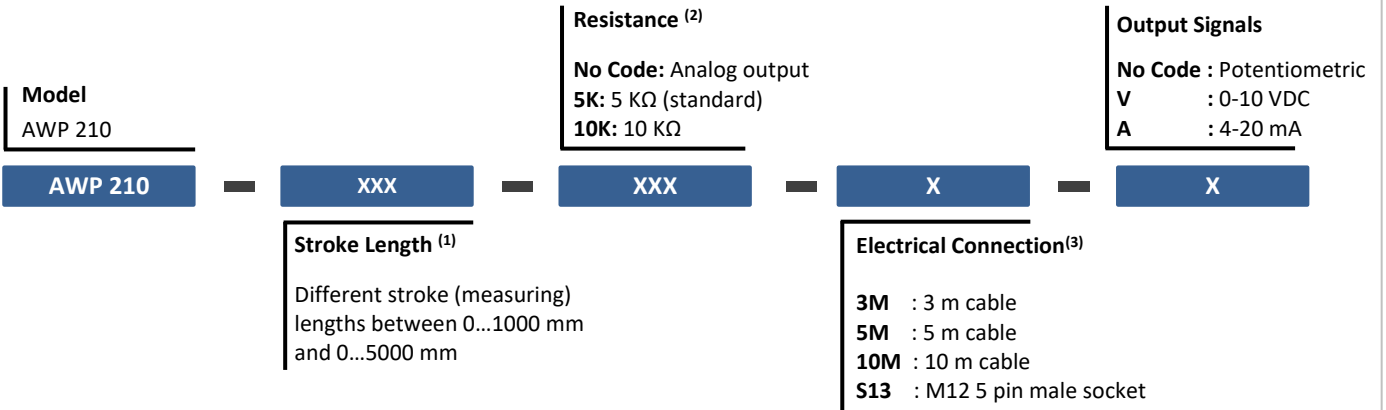
**Important Note(!): Failure to comply with these recommendations, the malfunctions that may occur will not be under the warranty.**

## SAMPLE APPLICATION FIELDS

- Elevators
- Press machines
- Crane systems
- Wood processing machines
- Marble processing machines
- Storage positioning
- Dam protections
- Sluice gate control
- Air compressors
- Glass processing machines
- Lifting platforms
- Applications in medical technologies (operating table etc.)
- Forklifts
- Screw machines
- Paper machines
- Sewing machines
- Hydraulic machines
- Sheet metal machines
- Printing machines
- Horizontal control equipments
- Construction machines
- Industrial robots
- Injection machines
- X-Y axis displacement
- Liquid level measurements and position control



## PRODUCT CODE



- (1) For other (special production) stroke lengths, please contact us.
- (2) For products with analog output, resistance value is not selected. Please contact for other resistance options for potentiometric output products.
- (3) Product can be requested with cable or socket. Please contact us for other cable length and socket model requests.

**Sample Code 1 (Potentiometric output) :** AWP-210-2000-5K-S13

AWP 210 series, 2000 mm stroke, 5K resistance, 1 pcs M12 5 pin male socket, potentiometric output

**Sample Code 2 (Analog output) :** AWP-210-2000-3M-V

AWP 210 series, 2000 mm stroke, 3 meters cable, voltage output

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