

DRAW WIRE ENCODER

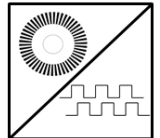
“High strength stainless steel wire”

AWE 210



GENERAL FEATURES

- Different stroke (measuring) lengths between 0...1000 mm and 0...5000 mm
- Incremental output
- Stainless steel measuring wire
- IP53 protection class
- Compact design
- Easy installation
- 2 m/s maximum speed
- Shock/Vibration resistant



AWE 210 wire encoders convert linear motion into incremental digital pulses. Different stroke (measuring) lengths between 0...1000 mm and 0...5000 mm are available. Optionally other stroke lengths, resolutions, cable lengths and socket connectors can be requested.

They make measurement by pulling and rewinding stainless steel wire. Usage is practical and usage area is quite wide. By connecting to a counter or position controller, they become a perfect system in high resolutions for position control in wood processing, marble machines, glass processing machines and other machines.

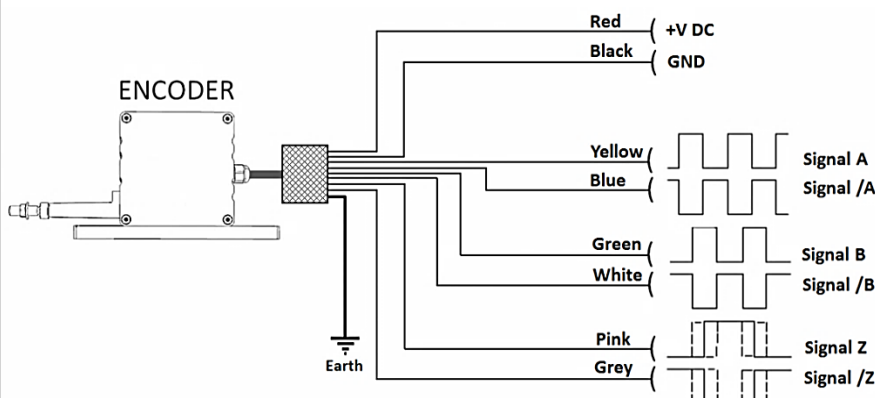
TECHNICAL SPECIFICATIONS

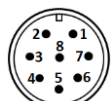
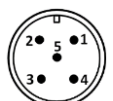
*Stroke (measuring) Length	Different stroke (measuring) lengths between 0...1000 mm and 0...5000 mm		Maximum Speed	2 m/s
			Required force	10 N
*Resolution	pulse/mm	mm/edge	Max Output Current	60 mA (per channel)
	5 pulses/mm	0.05 mm		
*Connection Cable Length	3m (standard), 5m, 10 m		Measuring Type	Optic
			Materials	Housing: Aluminum/steel /plastic
*Supply Voltage	5...30V DC ±20%			Measuring Wire: Stainless steel
*Output Signals	A,B,Z (standard) A,B A,/A,B,/B A,/A,B,/B,Z,/Z		IP Protection Class	IP53
			Operating Temperature	-25°C ... +85°C
			Relative Humidity	%95
			Accuracy	±0.25% FS
			Weight	≈1900 gr

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

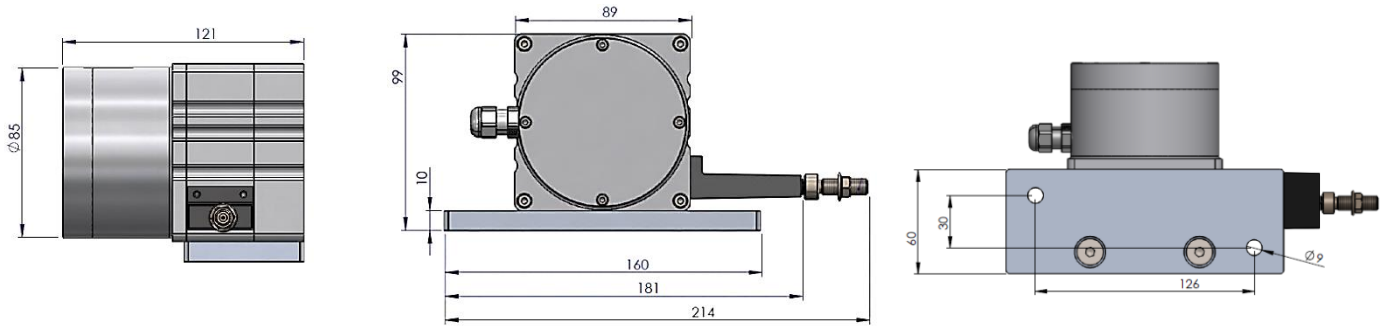
ELECTRICAL CONNECTION

In the left tablet he cable colors of sensors output signals are given. If the control circuit is suitable in the Line Driver sensors of the not output signals (/A, /B, /Z) have to be added to the system. If it is not suitable /A, /B, /Z signal cables must be fixed as insulated separately. Don't forget that these edges have electricity too.



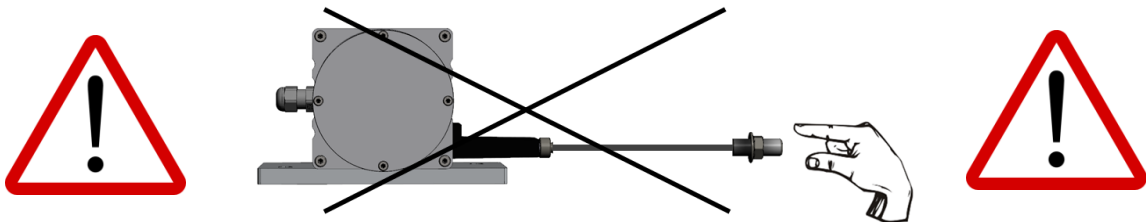
SIGNAL	CABLE COLOR	M12/8 pin SOCKET	M12/5pin SOCKET
		 PIN NO	 PIN NO
A	Yellow	1	1
B	Green	2	2
+V	Red	3	3
0V	Black	4	4
Z	Pink	5	5
/A	Blue	6	-
/B	White	7	-
/Z	Grey	8	-
EARTH	Silver	-	-

DIMENSIONS

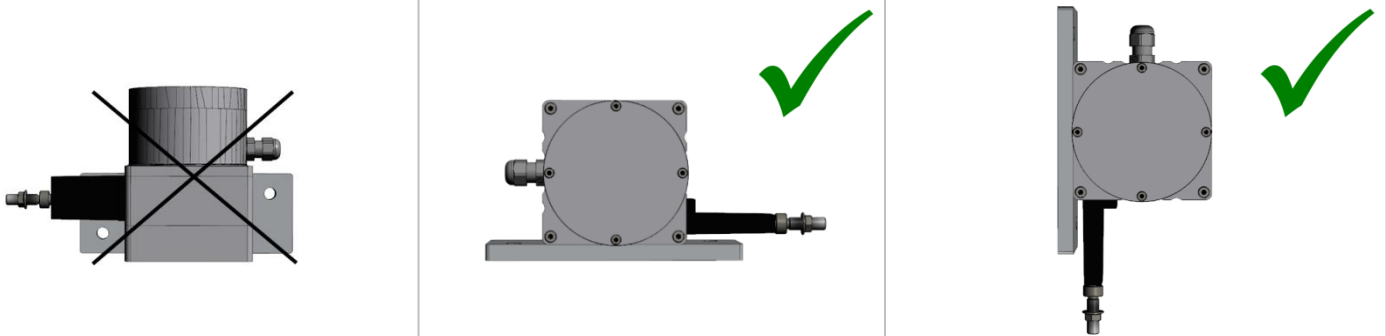


MOUNTING AND WARNINGS

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



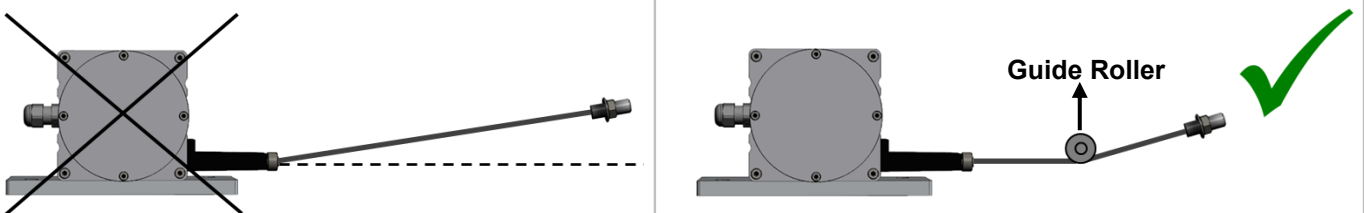
2. Mount the sensor according to the mounting directions shown below.



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.

SOCKET MODELS

M16 8 PIN MALE SOCKET

M12 5 PIN MALE SOCKET

M23 12 PIN MALE SOCKET

Technical drawing showing the dimensions of the M23 12 PIN MALE SOCKET:

- Overall length: 22.5
- Length of the central section: 11.5
- Outer diameter of the base: Ø 19.8
- Outer diameter of the mounting flange: Ø 25
- Inner diameter of the mounting flange: Ø 19.8
- Pin pitch (center-to-center): Ø 2.7 / Ø 3.2
- Pin diameter: M 2.5 / M 3

SAMPLE APPLICATION FIELDS

- Sheet metal machines
- Printing machines
- Horizontal control equipments
- Construction machines
- Industrial robots
- Injection machines
- X-Y axis displacement
- Liquid level measurements and position control



ORDER CODE

Model

AWE 210

AWE 210

Stroke Length *

Different stroke (measuring) lengths between 0...1000 mm and 0...5000 mm

XXX

Output Signals

- 2 (A,B)
- 3 (A,B,Z) (standard)
- 4 (A,/A,B,/B)
- 6 (A,/A,B,/B,Z,/Z)

X

Resolution*
02 : 0.2 mm/pulse

Supply and Output

PP : 10...30 VDC Supply
: 10...30VDC Output

TTL : 5 VDC Supply
: 5 VDC TTL RS422 Line Driver Output

HTL : 10...30 VDC Supply
: 5 VDC TTL RS422 Line Driver Output

HPL : 5...30 VDC Supply (standard)
: 5...30 VDC Push-Pull Output

HTL : 10...30 VDC Supply

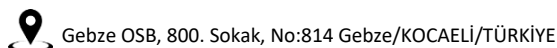
Electrical Connection*


3M : 3m (standard)
5M : 5m
10M : 10m
S13 : M12 5 Pin Male Socket
S14 : M12 8 Pin Male Socket
S16 : M16 8 Pin Male Socket
S23 : M23 12 Pin Male Socket

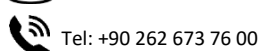
S13 : M12 5 Pin Male Socket
S14 : M12 8 Pin Male Socket

(*) Please contact for other (customized) options.

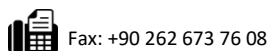
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