

DRAW WIRE ENCODER

AWE 508

"High strength stainless steel wire"









- Different stroke (measuring) lengths between 0...4000 mm and 0...8000 mm
- Incremental output
- Stainless steel measuring wire
- IP54 protection class (Optional IP67)
- Compact design
- Easy installation
- 2 m/s maximum speed
- Shock/Vibration resistant
- Aluminum body

AWE 508 series wire encoders convert linear motion into incremental digital pulses. They have different stroke lengths up to 8000 mm. Optionally other resolutions, cable lengths and socket connectors can be requested.

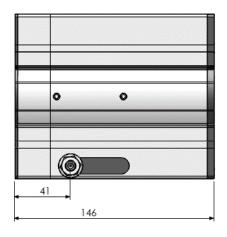
They make measurement by pulling and rewinding stainless steel wire. Usage is practical and usage area is quite wide. By connecting to a counter or position controller, they become a perfect system in high resolutions for position control in wood processing, marble machines, glass processing machines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

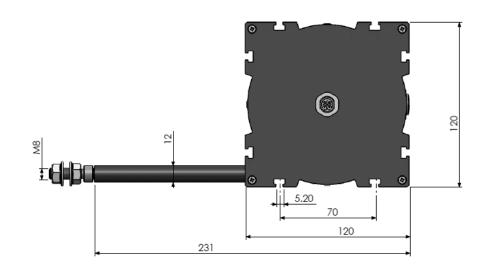
MECHANICAL DATA

Mechanical and Environmental Data				
Stroke Length	Different measuring lengths between 04000 mm and 08000 mm			
Linearity	±0.25% FS			
Maximum Speed	2 m/s			
Required force	10 N			
Protection Class	IP54 (Optional IP67)			
Operating Temperature	-25°C +85°C			
Relative Humudity	%95			
Material	Body	Aluminum/steel /plastic		
	Measuring wire	Stainless steel		

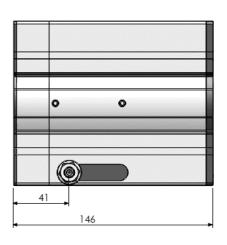
MECHANICAL DIMENSIONS (mm)

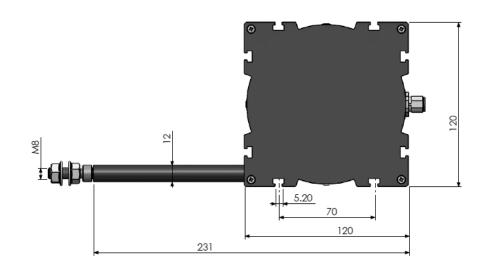
M12 Connector Output From Backside



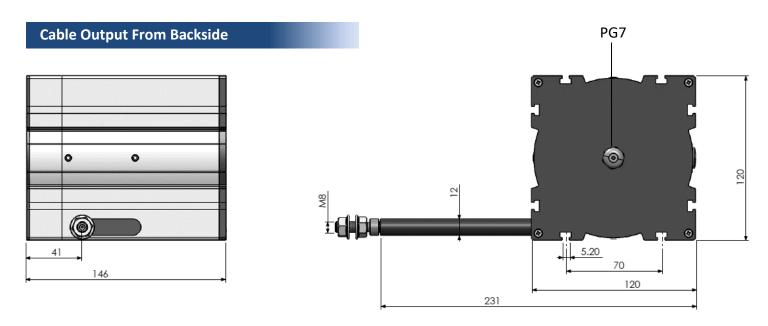


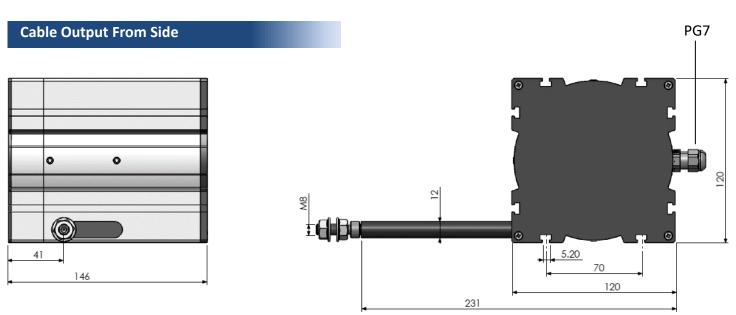
M12 Connector Output From Side





DS-AWE.016 Rev No:3

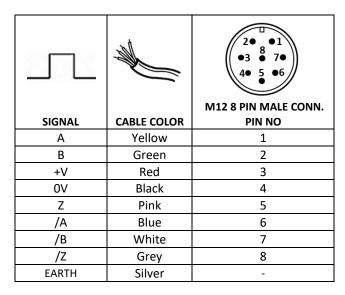




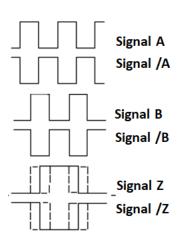
ELECTRICAL DATA				
Measuring Type	Optical			
*Resolution	pulse/mm		mm/edge	
	3 pulse/mm		0.075 mm	
*Electrical Interface		Supply	Output	
	PP	1030 VDC	1030 VDC Push-Pull	
	TTL	5 VDC	5VDC TTL RS422 Line Driver	
	HTL	1030 VDC	5VDC TTL RS422 Line Driver	
	HPL	530 VDC	530 VDC Push-Pull	
*Output Signals	A,B,Z (standard) A,B A,/A,B,/B A,/A,B,/B,Z,/Z			
Max Output Current	60 mA (per channel)			
*Electrical Connection	5 or 8x0,14 mm ² shielded cable M12 / 8 pin male connector			

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ELECTRICAL CONNECTIONS



In the right table the 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.



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













ORDER CODE

Output Signals Stroke Length Cable or Socket 2 (A,B) Direction Different measuring lengths 3 (A,B,Z) (standard) B: From backside between 0...4000 mm and 4 (A,/A,B,/B) Model 0...8000 mm 6 (A,/A,B,/B,Z,/Z) S: From side AWE 508 -XX XXXX XXX XXXX Resolution **Electrical Connection Protection Class Supply and Output** No code: IP54 (std) 03 : 0.3 mm/pulse 3M : 3m (standard) PP: 10...30 VDC Supply E067 : IP67 5M:5m : 10...30VDC Push-Pull Output TTL: 5 VDC Supply 10M: 10m : 5 VDC TTL RS422 Line Driver Output **\$14M**: M12 / 8 Pin Male Conn.

: 5 VDC TTL RS422 Line Driver Output

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

HTL: 10...30 VDC Supply

MOUNTING AND WARNINGS

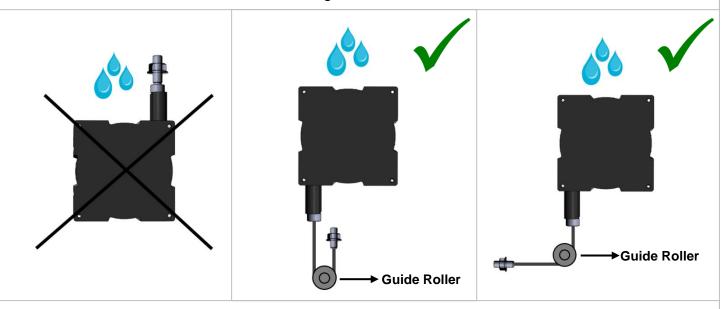
1. Never release the wire after pulling. Otherwise, the coil spring will be damaged.



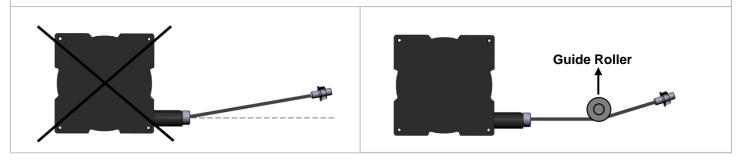
2. Mount the sensor according to the mounting directions shown below.



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.