



- Optical measurement
- Measuring lengths from 50 mm to 1000 mm
- High resolution up to 1 μm
- $\pm 10 \mu\text{m}$ accuracy
- 5 ball bearing system
- Single or double seal protection
- 5 VDC TTL quadrature or 1vpp sinusoidal output signal
- Easy mounting
- 60 m/min traveling speed

ALS series optical linear encoder systems are protected from factors such as dust, shavings, dirt and coolant with its compact design. ALS4 series, which has optical measuring principle with glass ruler, can measure between 50 and 1000 mm.

APPLICATIONS

- Manuel Benches
- Press Brakes and Bending Machines
- Robotic / Material Packaging
- Linear Bearing Systems
- Automation and Robotic Applications
- Textile Machinery
- Transfer Machines
- Turning, Milling
- Woodworking machines etc.

TECHNICAL FEATURES

Measuring Type	Optical	Reference Mark	1 reference mark at every 50 mm
Measuring Lengths	Different lengths from 50 mm to 1000 mm	Body Material	Aluminum
Resolution	1 μm , 5 μm or 1Vpp sinusoidal	Operating Temperature	0°C...50 °C
Signal Period	20 μm	Storage Temperature	-20°C...70 °C
Accuracy	$\pm 10 \mu\text{m}$	Protection Class	IP54
Repeatability	± 1 pulse	Electrical Connection	Spiral cable and socket (For TTL Signal:D-SUB 9 pin male socket / For Sinus Signal: M16/8 pin female socket)
Max traveling speed	60m/min		
Supply Voltage	5 VDC	Max cable length	50-500mm (3m armoured cable) 600-2000mm (5m armoured cable)
Output Type	5V TTL or 1Vpp Sinusoidal		

ELECTRICAL CONNECTIONS

PIN NO	CABLE COLOR	D-SUB 9 PIN SOCKET	M16/8 PIN FEMALE SOCKET
		TTL SIGNAL	SINUS SIGNAL
1	WHITE	A	0°
2	BROWN	/B	180°
3	RED	+5VDC	+5VDC
4	BLACK	0V-GND	0V-GND
5	BLUE	/A	90°
6	GREEN	B	270°
7	YELLOW	/Z	Z
8	GREY	Z	N/C

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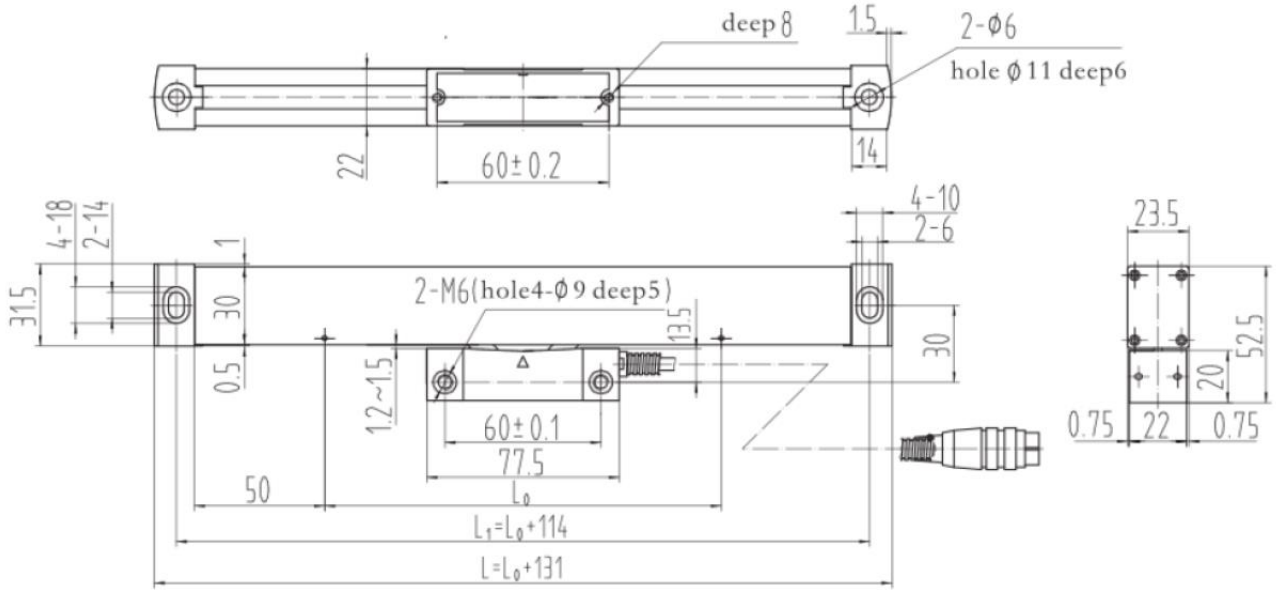
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In the table, the cable colors of sensors output signals are given. If the control circuit is suitable, in the line driver sensors, the not signals (/A, /B, /Z) have to be added to the system. If it is not suitable /A, /B, /Z signal cables must be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

MECHANICAL DIMENSIONS



L₀: Measuring Length (mm) (different lengths from 50 to 1000 mm)
L₁: Distance between mounting holes (mm)
L: Body Length (mm)

ORDER CODE

Model				Measuring Length	
				Different lengths from 50 mm to 1000 mm	
ALS 4	-	XX	-	XXX	
Resolution					
01 : 1 μ m					
05 : 5 μ m					
S : Sinusoidal					

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