

- Optical measuring
- Glass rule
- 5 ball bearing system
- Single gasket protection
- High resolution up to 1 µm
- 5 VDC TTL Quadrature or 1 Vpp Sinusoidal
- Easy mounting
- Measuring lengths 50 mm – 1000 mm
- 60 m/min movement speed

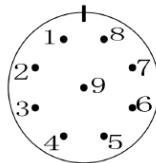
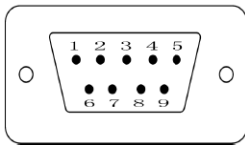
ALS series Optic Linear Encoder Systems are protected from dust, chips and splash fluids and are ideal for operation on machine tools.

ALS5 optically measuring with glass ruler can measure between 50 and 1000 mm.

Technical Specifications

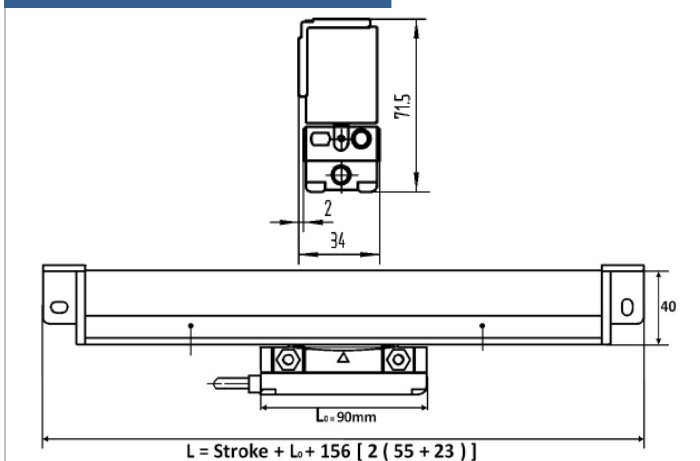
Resolution	1µm, 5µm or 1Vpp Sinusoidal
Output	5VDC TTL Quadrature or 1Vpp Sinusoidal
Output Signals	TTL: A, /A, B, /B, Z, /Z
Grating pitch / Signal Period	20 µm
Power Supply	5 VDC
Accuracy	± 10 µm
Movement Speed	60 m/min
Repeatability	± 1 Pulse
Body Material	Aluminum
Reference Mark	1 Reference Mark, Every 50 mm
Storage Temperature	-40 to +55°C
Operating Temperature	0 to +50°C
Protection Class	IP54
Cable Length	50 – 500 mm scale (3 meters armored cable) 600 – 2000 mm scale (5 meters armored cable)

Connection



PIN NR	CABLE COLOUR	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	VACANT
9	-	SHIELD	SHIELD

Mechanical Dimensions



Order Code

Model

ALS 5

-

X

-

X

X

X

Measuring Stroke

50 : 50 mm
200 : 200 mm
500 : 500 mm
1000 : 1000 mm

Resolution

01 : 1µm
05 : 5µm
S : Sinusoidal

Signal Output Type

6 : A, /A, B, /B, Z, /Z

Standard, 1 Z signal per 50 mm
Optional one Z reference signal