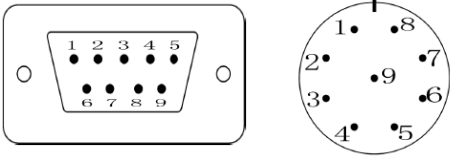


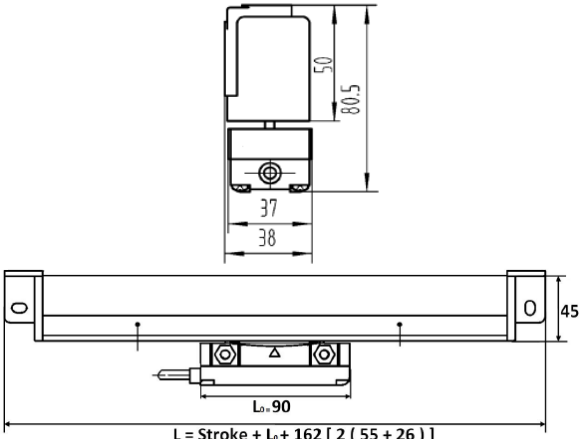
- Optical Measuring
- Glass Scale
- Scanning Unit Guided on Scale 5 Via Ball Bearings
- Single Gasket Protection
- High Resolution Up to 1 μm
- 5 VDC TTL Quadrature or 1 Vpp Sinusoidal
- Easy Mounting
- Measuring Lengths 1100 mm – 12000 mm
- 60 m/min Travel Velocity

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

Sealed linear encoders are available with full-size scale housings for high resistance to vibration up to 12000 mm measuring length.

| Connection | | | |
|--|--------------|------------|--------------|
|  | | | |
| PIN NR | CABLE COLOUR | TTL SIGNAL | SINUS SIGNAL |
| 1 | GREY | 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 | WHITE | Z | VACANT |
| 9 | - | SHIELD | SHIELD |

| Technical Specifications | |
|-------------------------------|---|
| Resolution | 1 μm , 5 μm 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 | $\pm 10 \mu\text{m}$ |
| Travel Velocity | 60 m/min |
| Repeatability | ± 1 Pulse |
| Housing 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) |

| Mechanical Dimensions | |
|---|--|
|  | |
| $L = \text{Stroke} + L_1 + 162 [2 (55 + 26)]$ | |

| Order Code | | | | | | |
|---|--|---|---|---|---|---|
| Model | Measuring Stroke | | | | | |
| | 1100 : 1100 mm 12000 : 12000 mm | | | | | |
| ALS 6 | - | X | - | X | X | X |
| Signal Output Type | Resolution | | | | | |
| | 01 : 1 μm 05 : 5 μm S : Sinusoidal | | | | | |
| 6 : A, /A, B, /B, Z, /Z | | | | | | |
| Standard, 1 Z signal per 50 mm Optional one Z reference signal | | | | | | |
| Please inquire us, for other stroke measurings. | | | | | | |