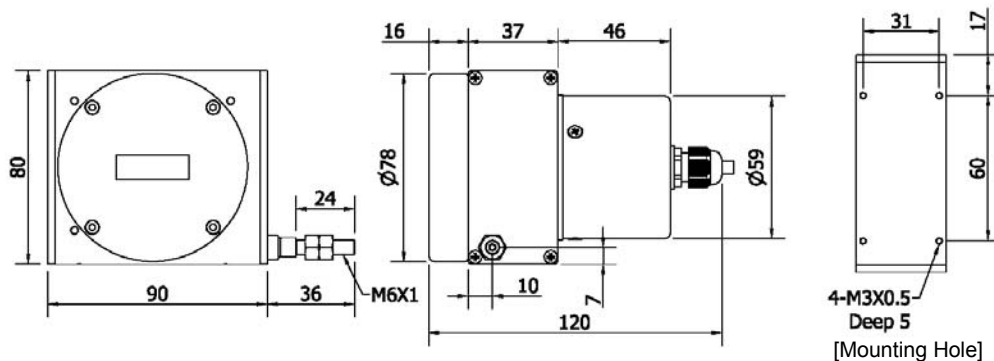


HLS-M

LINEAR WIRE ENCODER



ELECTRICAL SPEC.

| | |
|--------------------------------|--|
| Detection System | Incremental |
| Output Wave | Square Wave |
| Stroke (mm) | 2000, 3000, 5000 |
| Standard Resolution (mm/pulse) | 0.5, 0.1, *0.05 mm/pulse (*0.05 mm/pulse only for stroke: 2000 mm) |
| Accuracy | ±0.05% FS, ±1 count |
| Output Phase | AB phase or ABZ phase |
| Electronics | NPN Voltage, NPN Open Collector, Push Pull or Line Driver |
| Power Supply | DC 8~26V, DC 5V fixed |
| Current Consumption | ≤ 60 mA |
| Output Capacity | Sync. Current: 20 mA, Residual Voltage: 0.5V or less |
| Max. Response | 10K Hz ~ 50K Hz |
| Phase Different | A, B phase different 90°±45° (T/4±T/8), Z phase T±T/2 |
| Wave Form Rise / Fall | 2 µs or less |
| Polarity | Against Reverse Protection (not with DC 5V) |

MECHANICAL SPEC.

| | |
|---------------------------|---|
| Wire Specification | Material: SUS304 with nylon coating Diameter: 0.7 mm; Breaking load: 23 Kg |
| Max. Travel Speed | 1,000 mm / sec. |
| Vibration | 10g (10±1,500 Hz) |
| Shock | 20g per 11 ms |
| Cable | Ø5.4, 100 cm long |
| Weight | < 1,000g |
| Starting Torque on Spring | Max. 900 g |

ENVIRONMENTAL SPEC.

| | |
|----------------------------|--|
| Operating Temp. / Humidity | -10°C ~ 60°C, RH 35% ~ 90% (No Condensation) |
| Storage Temp. | -20°C ~ 80°C |
| Protection | IP64: Dust & Dripping Proof (only for encoder housing) |
| Life | Typical > 1 X 10 ⁶ cycles |

ORDERING INFORMATION

| HLS-M | Measuring Range | Resolution | Output Phase | Electronics | Supply Voltage |
|-------|--|--------------------------------------|----------------------------------|--|----------------------------------|
| | 20 : 2000 mm 30 : 3000 mm 50 : 5000 mm | 05 : 01 : 0.1 mm 005 : 0.05 mm | Blank: AB phase *Z: ABZ phase | Blank: NPN Voltage C: NPN Open-Collector PP: Push-Pull *L: Line Driver 5Vdc *HL: Line Driver 5~26Vdc | Blank: 8~26Vdc 5V: 5Vdc fixed |

*0.05 mm/pulse only for stroke: 2000 mm