Karman Vortex System Flow Sensor KSL-80L/KSL-160L

Features

- As a sensor for monitoring the cooling water of equipment, a cumulative total of 60,000 units have been delivered to leading semiconductor and LED equipment manufactures in the world.
- Measures and displays the flow rate, temperature, and integrated values.
- Analog output
- Alarm output
- The digital display is turned depending on the installation status.
- Digital display

Electric wiring





- AWM20276: This is a cable with no terminal processing (9 core/0.2 mm²/1000 mm).
- GND should be used as a common ground wire for all other signaling lines including power supply. If COM is specified as the common alarm return in the order format, the return of the flow rate and temperature measurement alarm output is COM.

Dimensions



Specifications

Model	KSL-80L	KSL-160L
Flow rate	10 to 80 L/min	20 to 160 L/min
Integration	0 to 999999 L	
Temperature detection range	0 to 99°C	
Output	0 to 10 V or 4 to 20 mA (flow rate, temperature)/pulse (integration)	
Alarm	MOS-FET ON or OFF (flow rate, integration, temperature)	
Maximum operating pressure	1 MPa (below 10kgf/cm ²)	
Fluid temperature	0 to 60°C	
Ambient temperature	0 to 40°C (Non-freezing)	
Flow direction	Specified direction	
Power supply	DC12V±5% or DC24V±10%	
Current consumption	30 mA max. (70 mA max. in 4 to 20 mA specification)	
Accuracy	FS±2.0%	
Material of body	SUS304	
Materials of vibrator	Resin (LCP)	
Applicable fluid	Industrial water or service water	
Sealing O-ring	Fluororubber	
Coupling of pipings	Rc 1/2	Rc 1
Cable	AWM20276 9 cores/0.2 mm ² /1000mm	
Weight	380g	500g

Note) The KSL-160L has the following accuracies: Accuracy of FS $\pm 2\%$ in a range from 20 to 140 L/min Accuracy of FS $\pm 5\%$ in a range from 140 to 150 L/min Accuracy of FS $\pm 10\%$ in a range from 150 to 160 L/min

Flow rate characteristics

D = 19.0 mm.)



Order format



ENSOR