



SoGnee Smart Sensor

So!Gnee smart sensor is capable of simultaneous monitoring of temperature and vibration states for efficient operation and management of a smart factory.

- Application strengths

- Development optimized for monitoring through PLC
- Monitoring capability with utilization of universal HMI
- Simultaneous monitoring of temperature and vibration states after installation of sensors per equipment section
- Capable of minimum-delivery response as well as development response according to field situations
- Optimum monitoring and alarm functions with minimum investment
- Equipped for such responses as Application DB, pilot operation after installation, control, electrical construction, HMI monitoring, pilot operation, maintenance & repair, etc. as a business capable of performing control construction
- Sensor application enabled at rational prices



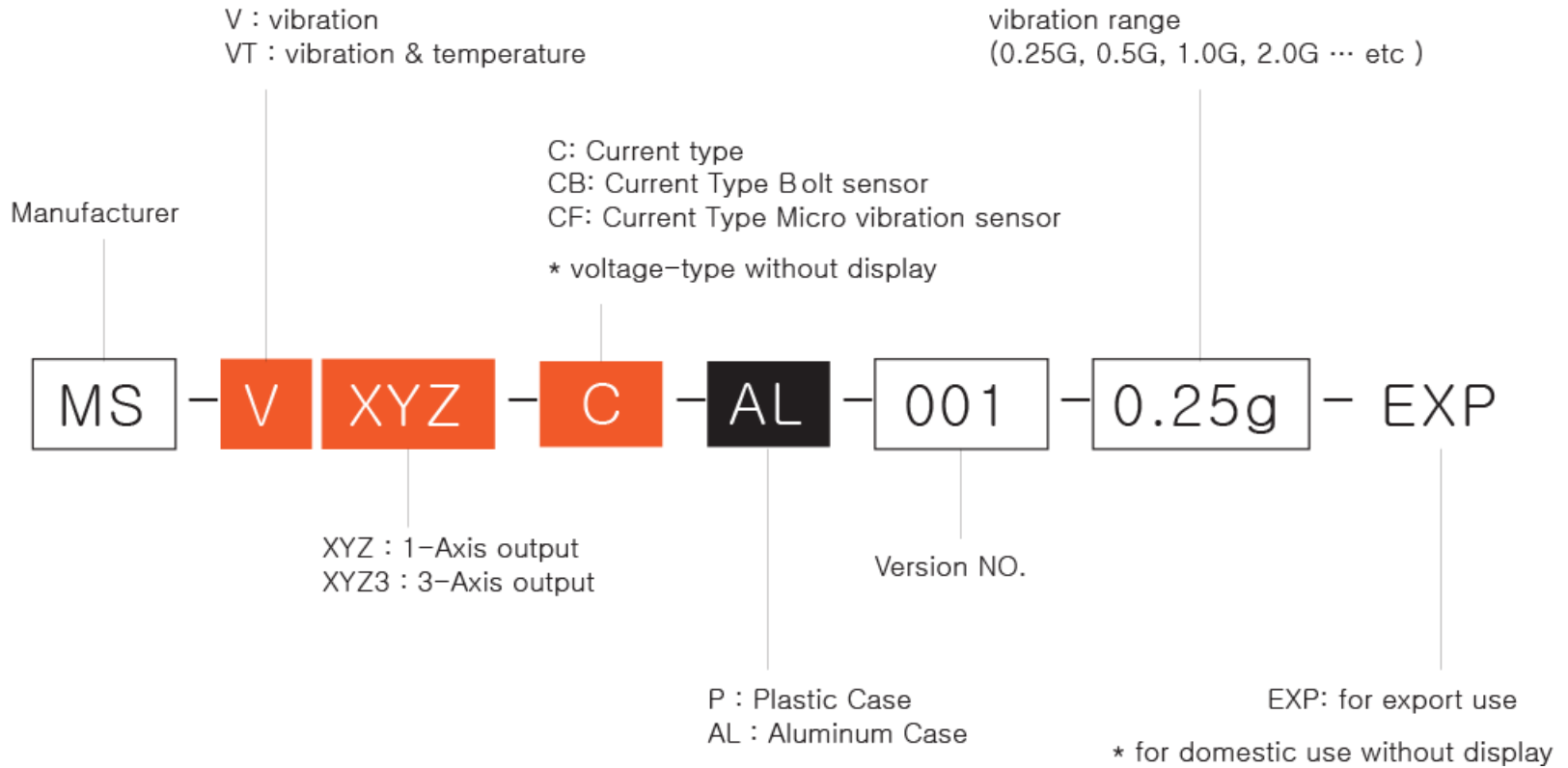
So!Gnee Sensor (IP65)



Aluminum waterproof case



Guide for product selection





Specification



IP66, IP65

Type	V (Voltage)	C (Current)	CB (Bolt Type)
Measuring Range (g)	0.25~1G : universal (3~50G : order production)		
Sensitivity	±1mg(X-axis, Y-axis, Z-axis)		
Frequency Range	~1.6kHz, ~11kHz		
Resonance Frequency	5.5kHz, 21kHz		
Bandwidth (Hz)	60Hz, 240Hz	60Hz, 240Hz, 1kHz	
Power	Input Voltage 24±4VDC @ 30mA or less	Input Voltage 24±4VDC @ 50mA or less	
Housing	Aluminium & ABS Plastic		
Operating Temperature	-30°C ~ 100°C		
Weight	200g or less		
Output	0 ~ 5.0V(vibration & temperature outputs)	4 ~ 20 mA (vibration & temperature outputs)	

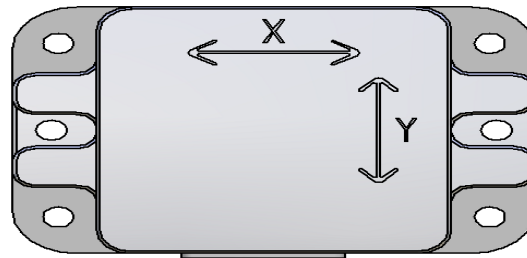
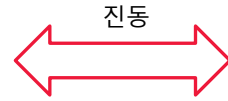
※ Type CF : 0.1Hz ~ 60Hz (low-frequency micro vibration)

	V (Voltage)	C (Current)
Red	Input Voltage (+20V ~ +28V)	Input Voltage (+20V ~ +28V)
Black	GND	GND
White	Temperature Analog Voltage	COM Vibration(+) Temperature(+)
Green	Vibration Analog Voltage	Vibration(-)
Blue		Temperature(-)





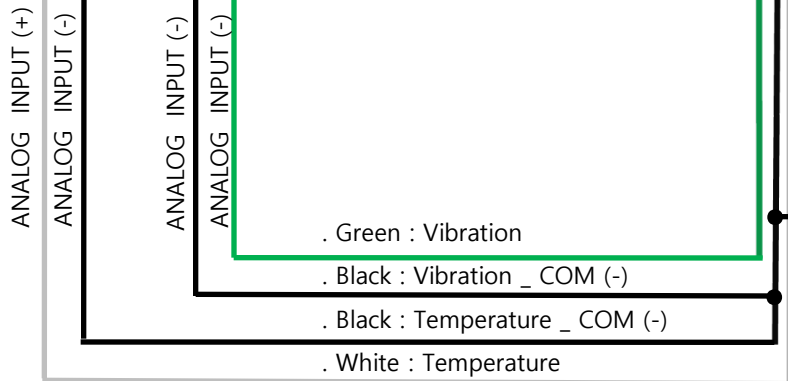
Wiring Diagram (Voltage Output Type)



POWER SUPPLY(24V)



PLC AD CARD

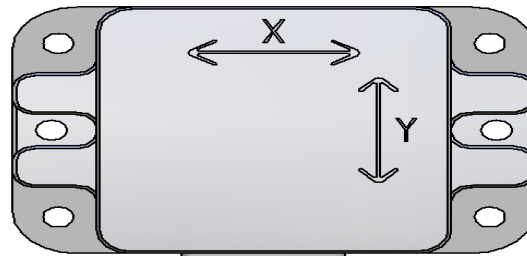
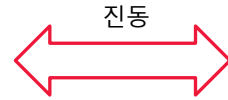


. RED : P24 (DC 20V ~ 26V)

. BLACK : N24 (GND)



Wiring Diagram(Current Output Type)



POWER SUPPLY(24V)



**PLC
AD CARD**

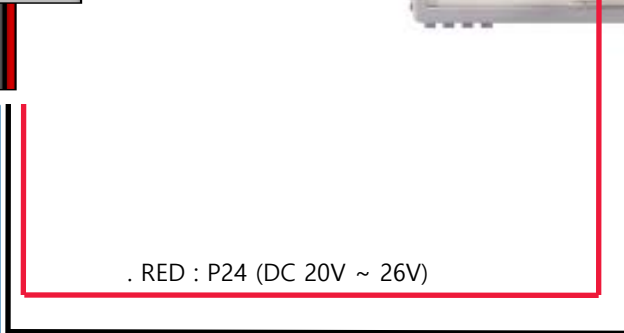
ANALOG INPUT (-)
ANALOG INPUT (+)

ANALOG INPUT (+)
ANALOG INPUT (-)

- . Green : Vibration _ Analog(-)
- . White : Vibration _ COM (+)
- . White : Temperature _ COM (+)
- . Blue : Temperature _ Analog(-)

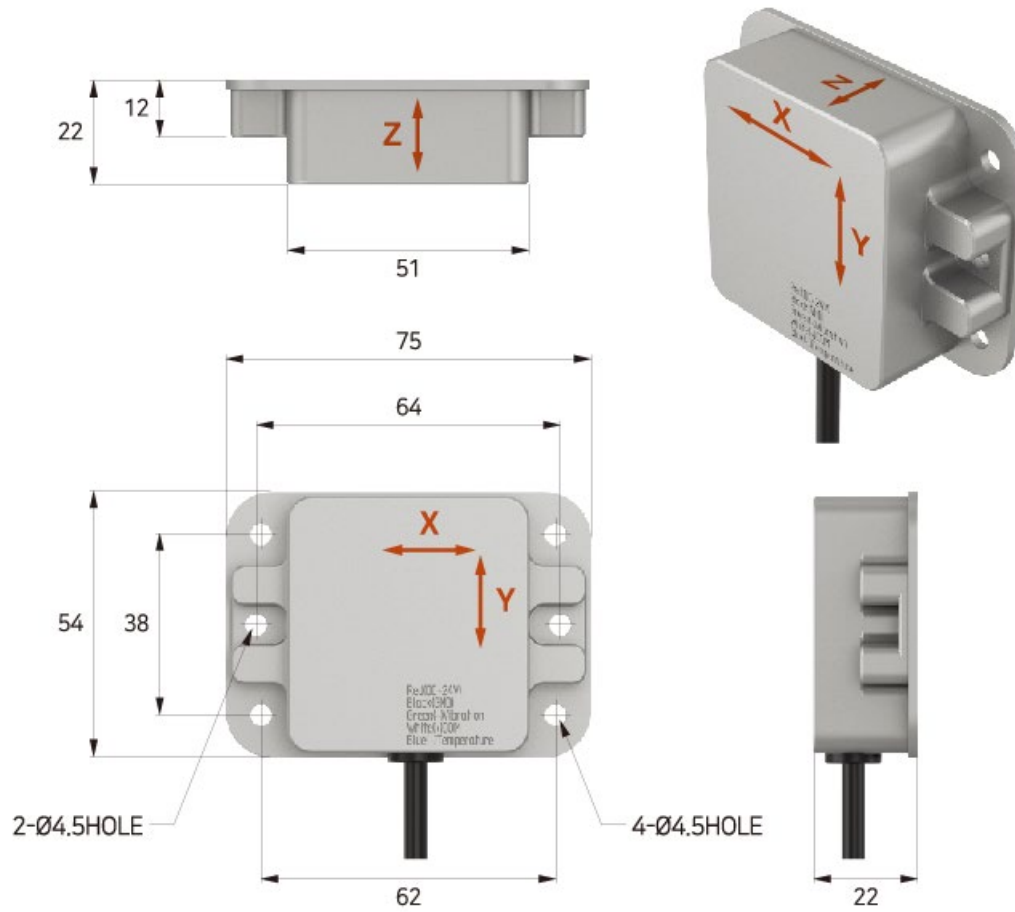
. RED : P24 (DC 20V ~ 26V)

. BLACK : N24 (GND)



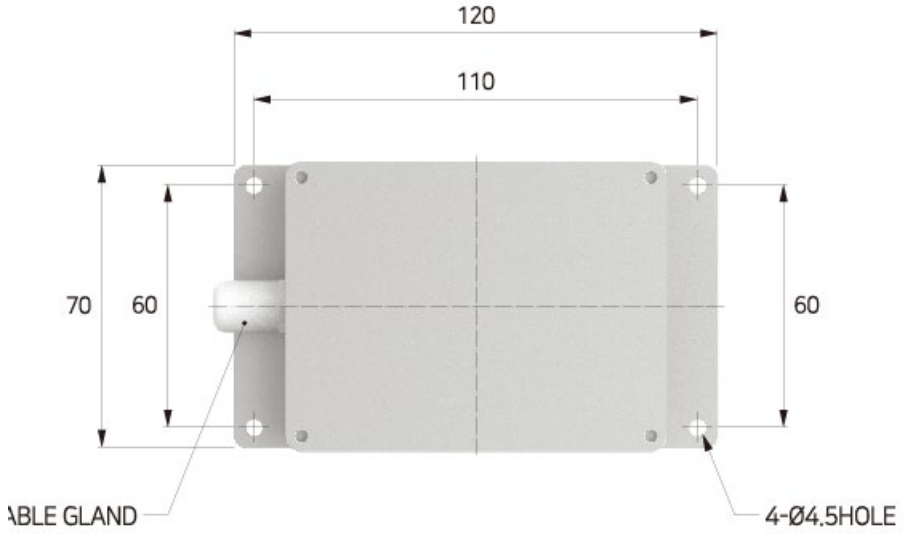


Outline



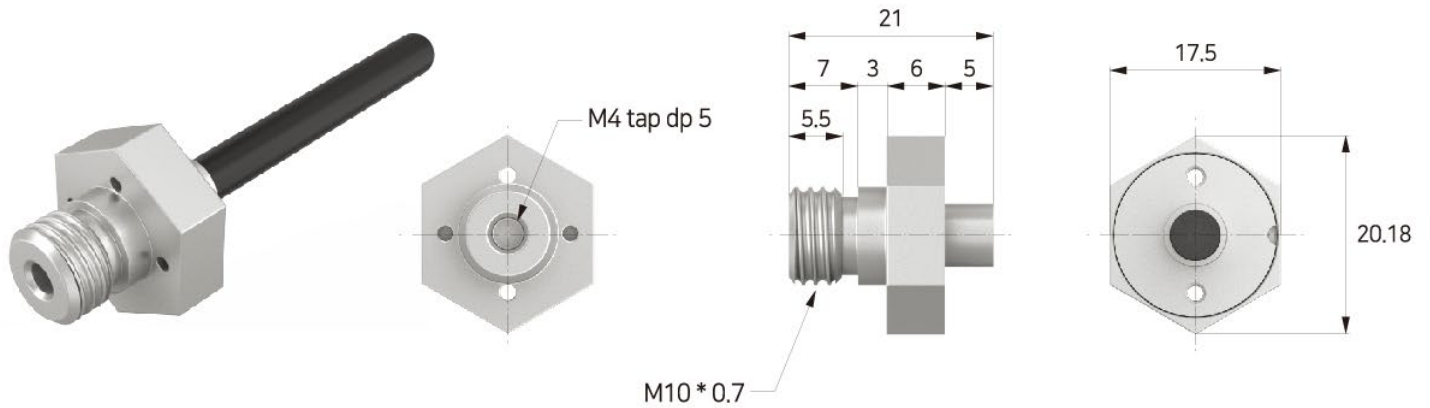


Waterproof Housing Case





Bolt Probe Type





How to install

(1). Order

1. Install the vibration sensor on the motor
2. After connecting the signal and power lines, apply the module power.
3. Automatically set the reference value after powering on the module (takes about 10 seconds)
4. Applying motor power, measuring vibration

(2). caution

- GND and shield of the vibration sensor module must be bundled together (be sure to use a shield wire for connection)
- For voltage type, use within 5m of the cable length of the vibration sensor module.
- For current type, it is recommended to use the vibration sensor module within 200 m of cable length (within 300 m max.)
- Do not bundle high voltage (over 220V) and low voltage (signal line) together.(If two or more voltage lines cross each other, use a metal shield (metal pipe) to treat the low voltage line with less noise)
- **When high-voltage and low-voltage lines run side by side, separate them with a duct at least 10cm apart and install them.**