

Read all instruction thoroughly

INSTRUCTION

PRESSURE SENSOR TYPE "XSK"



INTRODUCTION

● Thank you very much for buying our SK type Pressure Sensor. To ensure the correct use of the device, please read the instruction manual beforehand. After reading the manual, make sure to keep it to hand.

CAUTIONS FOR SAFETY

⚠ WARNING

Be careful about following matters to prevent from getting an electric shock.

- Do not pour water on the Pressure Sensor.

⚠ CAUTION

Be careful about following matters to prevent from breaking.

- Make sure to use another spanner at the hexagonal portion of connector when connect it to the pipe.
- Do not disassemble. ● Do not drop. ● Do not paint. ● Install it less than 10m/s² (Vibration).
- Before installing on the pipe, remove dust or foreign particle and make pipe inside clean.
- Available for fluid that does not give any damage to SUS, Solder & Brass of the element.
- Do not give static electricity to it because of electronic apparatus.
- Make sure to use within allowable fluid temperature range. When using fluid out of allowable fluid temperature range, cool it down to allowable fluid temperature by a Pipe Siphon and so on.

OPERATION CHECK

Install and calibrate the product correctly and then check its operation to confirm correct function of the whole system.

LIMIT ON APPLICATION

The product is not designed and manufactured for such equipment or system that is intended to be used under such circumstances as to relate to human life. For application requiring specially high reliability, please contact the Company first.

SCOPE OF WARRANTY

Unless otherwise agreed by the parties, warranty period of the product shall be one year after date of delivery to buyer. In case of failure attributable to the Company within such period, the product shall be repaired or replaced without charge, provided that any one of followings are out of the warranty:

- ① Improper handling or application by user.
- ② Modification or repair by other than the Company.
- ③ Any failure to be caused by acts of God, fire, storm or the like, war, riot or the like and other causes beyond the control of the Company.

Warranty described in this paragraph means the warranty for the product itself and does not include warranty for any consequential damage arising out of or occasioned by a defect or failure of the product.

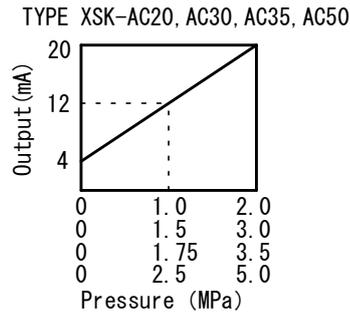
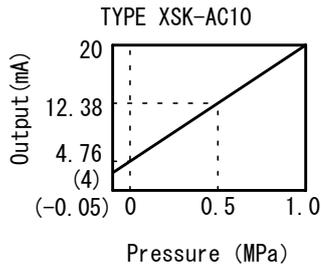
SPECIFICATIONS

Catalog No.	Pressure Connection	Pressure Range (MPa)	Output	Supply Voltage V _{cc} (V)	Accuracy	Load Resistance	Body Color	W t (g)	
XSK-AC10I	-194 (C3604)	7/16-20 UNF female for FLARE with Depressure Pin	(-0.05 to) 0 to 1.0	D C (4to) 4.76to20mA	D C 1 0 . 5 to 2 8	* ±3%FS	V _{cc} =12V MAX. 100Ω V _{cc} =24V MAX. 500Ω	Blue	9 0
XSK-AC20I			0 to 2.0						
XSK-AC30I			0 to 3.0	D C 4to20mA					
XSK-AC35I			0 to 3.5						
XSK-AC50I			0 to 5.0					Black	

* Included Non linearity, Hysteresis, and Temperature Drift.

CHARACTERISTICS

Combination between pressure and output current will be as follows:



COMMON SPECIFICATIONS

Type XSK pressure sensor is absolute pressure type. The pressure 1013hPa is defined as 0 MPa

- Dielectric Strength : 1500V. AC for 1 minute, or 1800V. AC for 1 second
- Insulation Resistance : 100MΩ or more at 500V. DC megger
- Air Tight Pressure : 3.85MPa (TYPE XSK-AC10, AC20, AC30, AC35)
: 5.5MPa (TYPE XSK-AC50)
- Fluid Temperature Range : -20 to 70°C
- Ambient Temperature Range : -20 to 70°C
- Protection (IP) : IP66

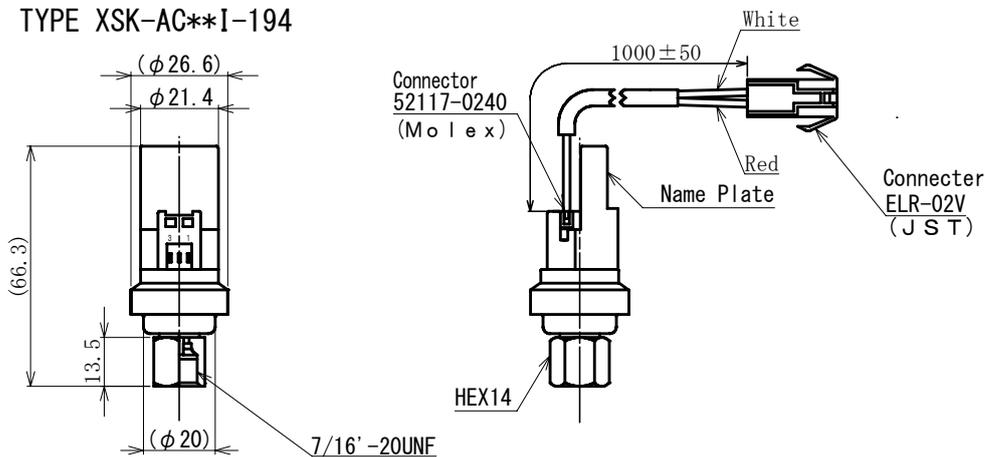
INSTALLATION

The pressure sensor can be installed at any position. Direct Installation to a pipe is possible because the sensor is small and light.

Further, pay attention to the following items when installing because these will cause malfunction.

- Do not drop the sensor. ● Do not paint the sensor.
- Make sure to clean the pipe completely before installing sensor to the pipe line.
- Use the sensor for fluid not to affect to each material of SUS, Brazing and Brass.
- Be sure to use another spanner at the hexagonal portion of connector when connecting pipe.
- Allowable fluid temperature is -20 to 70 °C. In case of application out of this range, use a syphon.

DIMENSION (in mm)



WIRING

- When wiring cable, Connector should be inserted into the Pressure Sensor at the last stage. Reserve wiring procedure may damage the Pressure Sensor due to static electricity.
- Connect with direct current power supply with low noise and low surge.
- Do not apply withstand voltage 1500VAC or more to the sensor because it will cause destruction of the sensor.

