

■ **Notice (Soldering and Mounting)**

1. Please do not clean the transducer with water or solvent.
2. Please do not solder the transducer with flow or reflow soldering. Do not exceed the soldering iron temperature 360 degree C and 6 sec.

■ **Notice(Handling)**

1. The transducer may generate surge voltage by mechanical or thermal shock. Care should be taken to protect from it in designing your application circuit.
2. Please do not apply an excessive stress to the transducer because the piezo electric element of the transducer might be damaged or inner cable might be disconnected.
3. The piezo electric element of the transducer may be damaged by force pressure from top and back side of the transducer.
4. Please do not apply D.C.voltage to the transducer to avoid failure. Electrode of piezo electric element might be shorted out with electronic migration.
5. Please do not use the transducer in water.
6. Please do not use the sensor without painting on the surface and please well evaluate the painting and electrical characteristic for your coating sensor.
7. Please hold the transducer with soft material such as rubber. The direct holding with hard material will be cause of vibration leakage from, or into the transducer. It will be influenced to decay time and short distance detection.
8. Please avoid humid penetration at the rear of the transducer in order to avoid short circuit. Please use the transducer with waterproof design.
9. The transducer is designed for dual use purpose. Please do not use the transducer only as receiver.
10. Please do not exceed 95 degree C/120 min. in the assembly process and painting process to avoid malfunction.
11. Please pay attention to select the material to hold or cover the backside of transducer. If it contains sulfur or sulfide, electrode on piezo-electric element might be corroded and cause a malfunction.

■ **Notice (Storage and Operating Condition)**

1. The products should not be used or stored in a corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali or the like are present. Store the products in the room where is normal temperature and humidity, and avoid the sunlight, sudden changes in temperature and humidity. It may cause of failure or malfunction in such conditions.
2. Store the products where the temperature and relative humidity do not exceed -10 to 40 degree C, and 30 to 80%RH. Please Use the products within 6 months after receiving.