Vibration Transducer

1/1: GS8558-EX

Vibration transducer input isolated barriers, transfer the $1\colon 1$ voltage signals, which vibration transducer outputs in hazardous area, to safe area. It can transmit AC and DC signals. This product needs an independent power supply and galvanic isolation among power supply, input and output.

Specification

Supply Voltage: 20~35V DC Current Consumption: ≤40mA

Safe-area Output:
Signal: -10V~+10V
Load Resistance: RL≥20kΩ

Hazardous-area Input:
Signal: -10V~+10V
Internal impedance: 10kΩ

DC Transmissiton accuracy: $<\pm 0.2\%$ F.S.

AC Transmissiton accuracy:

 $\begin{array}{ccc} 0\text{Hz}{\sim}600\text{Hz} & \pm 0.2\%\text{F.S.} \\ 600\text{Hz}{\sim}10\text{kHz} & -1.5\%{\sim} + 0.2\%\text{F.S.} \\ \textbf{Phase response:} & \text{Less than 1us is equals to} \end{array}$

-0.72° 200Hz -2° 600Hz -3.6° 1kHz -36° 10kHz

Bandwidth(-3dB): ≥40kHz

Temperature Drift: $0.005\%/^{\circ}C(-20^{\circ}C^{+}60^{\circ}C)$

 $\textbf{Power Supply Protection:} \ \ \textbf{Power supply reverse protection}$

EMC: According to IEC 61326-1(GB/T 18268) **Ambient Temperature:** -20°C~+60°C

Dielectric Strength:

Between non-intrinsically safe part and intrinsically safe part ≥2500V AC Between power supply part and output part ≥500V AC

Insulation Resistance:

Between non-intrinsically safe part and intrinsically safe part \geqslant 100M Ω Between power supply part and output part \geqslant 100M Ω

Structure: GS8500 range structure customized by Phoenix Contact

Weight: Approx.100g

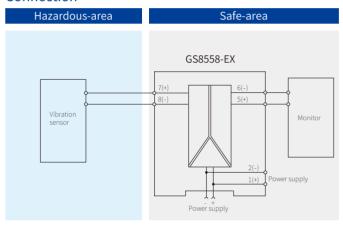
Suitable Location: Mounting in safe area, and connected to the IS apparatus in hazardous area up to zone0 IIC and zone20 IIIC.

Suitable Field Apparatus: Vibration transducer



Dimensions: 118.9mm×106.0mm×12.5mm

Connection



Note: Bus-powered function is optional, if necessary please specified when ordering, and purchase bus power accessories in additional.

Explosion-proof Certificate

Certifying Authority: NEPSI(China)

Ex Marking: [Ex ia Ga] II C

[Ex iaD]

Maximum Voltage: Um=250V

Intrinsic Safety Parameters(7、8 terminals):

* II B Intrinsic Safety Parameters are also suitable for dust explosion protection [Ex iaD]