1/1：GS8557-EX

Vibration transducer input isolated barriers, provide isolated power supply for the transmitters in hazardous area and transfer the 1: 1 negative 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.

Dimensions：118.9mm×106.0mm×17.5mm

Specification

Supply Voltage： 20~35V DC

Current Consumption：

⩽65mA(Supply voltage: 24V, distribution current: 20mA)

Safe-area Output：

Signal：-20V~-0.5V

Load Resistance：R_L⩾20kΩ

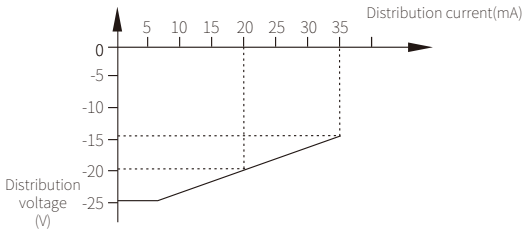
Hazardous-area Input：

Signal：-20V~-0.5V

Input impedance：10kΩ

Distribution Power：Open- circuit voltage＞-25V

Distribution Voltage：⩽-19.5V at 20mA



DC Transmissiton accuracy： ＜±50mV

AC Transmissiton accuracy：

0Hz~1kHz	±1%
1kHz~10kHz	-2%~＋1%
10kHz~20kHz	-5%~＋1%

Phase response： Less than 1us is equals to

-0.72°	200Hz
-2°	600Hz
-3.6°	1kHz
-36°	10kHz
-72°	20kHz

Bandwidth(-3dB)： ⩾50kHz

Temperature Drift： 0.01%/℃(-20℃~+60℃)

Power Supply Protection： Power supply reverse protection

EMC： According to IEC 61326-1(GB/T 18268)

Ambient Temperature： -20℃~+60℃

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 ⩾100MΩ

Between power supply part and output part ⩾100MΩ

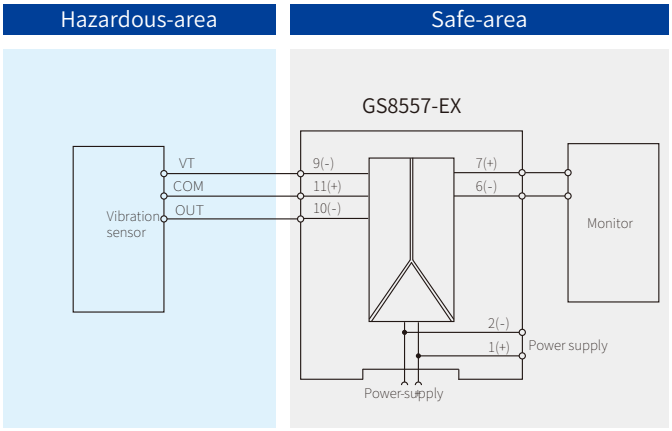
Structure： GS8500 range structure customized by Phoenix Contact

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、Negative voltage generator

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(9、10、11 terminals)：

U_O=26.5V，I_O=93mA，P_O=687mW

II C：C_O=0.095μF， L_O=4.2mH

*II B：C_O=0.73μF， L_O=12.6mH

II A：C_O=2.45μF， L_O=33.6mH

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