Analog Output

1/1：GS8567-EX

Analog output isolated barrier transfer the 4~20mA signal from safe area to hazardous area to drive excecutive devices. It also allows bi-directional transmission of HART communication signals. The product needs an independent power supply and galvanic isolation among power supply, input and output.

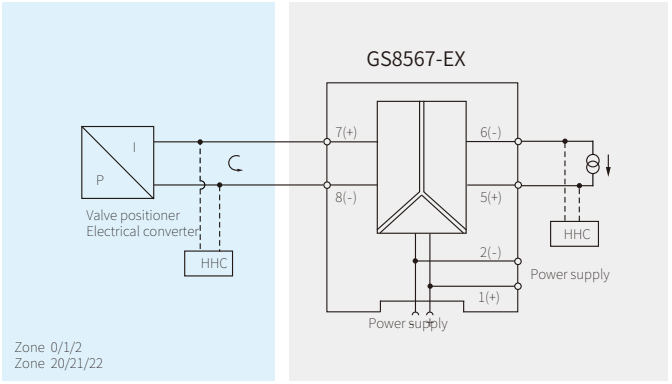
Dimensions：118.9mm×106.0mm×12.5mm

Specification

Supply Voltage： 20~35V DC
Current Consumption： ⩽55mA(Supply voltage: 24V; output: 20mA)
Safe-area Input：
Current：0/4~20mA, HART digital signal
Voltage drop：⩽6V
Hazardous-area Output：
Current：0/4~20mA, HART digital signal
Load Resistance：R_L⩽800Ω
HART Communication Load Resistance：R_L⩾250Ω
Output Accuracy： 0.1%F.S.
Temperature Drift： 0.005%F.S./℃
Response Time(0~90%)： ⩽2ms
Power Supply Protection： Power supply reverse protection
Output short-circuit Alarm：
When output load ⩽80Ω, short-circuit alarm active, and output 0mA
EMC： According to IEC 61326-1(GB/T 18268)，IEC 61326-3-1
Ambient Temperature： -20℃~+60℃
Dielectric Strength：
Between non-intrinsically safe part and intrinsically safe part⩾2500V AC
Between power supply part and input part⩾500V AC
Insulation Resistance：
Between non-intrinsically safe part and intrinsically safe part⩾100MΩ
Between power supply part and input part⩾100MΩ
Structure： GS8500 range structure customized by Phoenix Contact.
Weight： Approx. 100g
Suitable Location： Mounting in safe area or zone2(for ec protection), and connected to the IS apparatus in hazardous area up to zone 0 IIC and zone 20 IIIC.
Suitable Field Apparatus： 2-wire valve positioner, electrical converter, etc.

Connection

Hazardous-area	Safe-area/Zone 2



Note: a) Can't use HHC (HART Hand Held Communicator) in hazardous area and safe area at the same time.;
b) HHC(HART Hand Held Communicator)used in the hazardous area must get the explosion-proof certificate.
c) Bus-powered function is optional, if necessary please specified when ordering, and purchase bus power supply accessories in additional.

Explosion-proof Certificate

Certifying Authority： NEPSI(China)
Ex Marking： [Ex ia Ga] II C
[Ex iaD]
Ex nA II C T4 Gc
Maximum Voltage： Um=250V
Intrinsic Safety Parameters(7、8 terminals)：
U_O=28V，I_O=93mA，P_O=651mW
II C：C_O=0.083μF，L_O=4.2mH
*II B：C_O=0.65μF，L_O=12.6mH
II A：C_O=2.15μF，L_O=32.8mH
I：C_O=3.76μF，L_O=53.9mH
*II B Intrinsic Safety Parameters are also suitable for dust explosion protection[Ex iaD]