Analog Input

1/3:GS8247-EX.AR

Isolated barrier, with single channel analog input and multi-functional output, provide isolated power supply for transmitters in hazardous area and transfer 4~20mA current signal generated by the transmitter or the current source from hazardous area to safe area. It has alarm setting function, which can be output by relay according to set parameters. Power supply can be connected with rail or terminals.

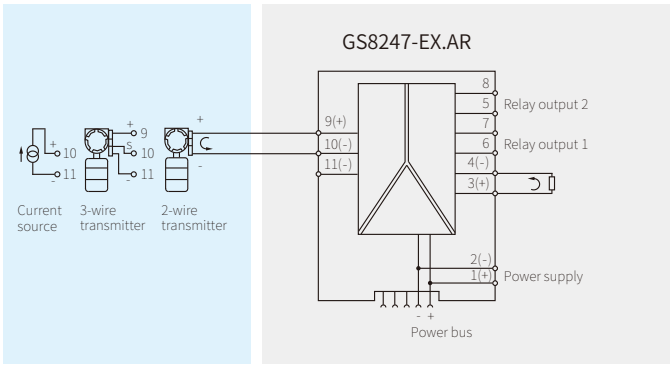
Dimensions:118.9mm×106.0mm×17.5mm

Specification

Supply Voltage:20~35V DC
Current Consumption:⩽95mA
Safe-area Relay Output:
Current Output:
Output Signal:4~20mA
Load Resistance:R_L⩽300Ω
Response Time(0~90%):⩽0.5s
Temperature Drift:0.1%F.S./10℃
Relay output:
Number of Channels:2
Contact Loading:250V AC,2A or 30V DC,2A
Load Type:Resistive load
Response Time:⩽0.5s
User can set alarm parameters and relay logic through software
Transmission Accuracy:0.1%F.S.(Typical:0.05%F.S.)
Hazardous-area Input:
Input Signal:4~20mA,d.c.
Distribution:
Open-circuit Voltage:⩽28V
Voltage at 20mA:⩾15.5V
Rated Current:⩽25mA
Line break error:⩽0.2mA
Line shorted error:⩾22mA
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
Weight:Approx.150g
Suitable Location:Mounting in safe area, and connected to the IS apparatus in hazardous area up to zone 0 IIC and zone 20 IIIC
Suitable Field Apparatus:2-wire or 3-wire transmitter,current source

Connection

Hazardous-area	Safe-area



Note:Bus terminal is optional.

Explosion-proof Certificate

Certifying Authority:NEPSI(China)
Ex Marking:[Ex ia Ga] II C
[Ex iaD]
Maximum Voltage:Um=250V
Intrinsic Safety Parameters:Terminals(9、10、11)
U_0=28V,I_0=93mA,P_0=651mW
IIC:C_0=0.083μF, L_0=4.2mH
⋆IIB:C_0=0.65μF, L_0=12.6mH
IIA:C_0=2.15μF, L_0=33.6mH
⋆IIB Intrinsic Safety Parameters are also suitable for dust explosion protection[Ex iaD]

Description of Indicator Light and Output Current

Example(Default setting):

Instrument Status	LED L	LED H	Output Current
Normal	OFF	OFF	4~20mA
Underrange	Flashing(slow)	OFF	3.8~4mA
Overrange	OFF	Flashing(slow)	20~20.8mA
Output below the lower limit	Flashing(fast)	OFF	3.8mA
Output exceeds the upper limit	OFF	Flashing(fast)	20.8mA
Line break error	ON	OFF	3mA
Line shorted error	OFF	ON	21mA