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GS4044-EX AI,Isolated Barrier(1 channel)

Analogue Input Isolated Barrier,Isolated from hazardous side to safety side,It allows bi-directional transmission of HART communication signals, The product requires independent power supply, power supply, input and output three isolation.



Number of channels: 1input/2outputs

Input signal: 0/4~20mA

power distribution: 15.5V/20mA

Output signal: 0/4~20mA ,0/1~5V

Power Supply Mode: 24VDC

Power Connection Mode: Backplane Power Supply

Special Function: Backplane output signal

HART: Support

产品参数

General

Number of channels	1input/2outputs
Dielectric strength	Between non-intrinsically safe part and intrinsically safe part \geq 2500VAC,Between power supply part and non-intrinsically safe part \geq 500VAC
Output accuracy(20°C)	0.1%F.S.
Temperature drift	0.005%F.S./°C
Response time	Reach 90% of final value in 2ms

Insulation resistance	Between non-intrinsically safe part and intrinsically safe part $\geq 100M\Omega$,Between power supply part and non-intrinsically safe part $\geq 100M\Omega$
Electromagnetic compatibility	According to IEC 61326-1(GB/T 18268)
EX marking	[Ex ia Ga] IIC [Ex iaD]
Weight	Approx 115g
Field apparatus	2-wire HART Transmitter,3-wire Transmitter,Current Source
Suitable location	zone 0;zone 1;zone 2;IIA;IIB;IIC;T4~T6

Input data

Input signal	0~20mA;4~20mA;HART
Open circuit voltage	$\leq 28V$
Distribution voltage	Voltage: $\geq 15.5V$ at 20mA
Normal working current	$\leq 25mA$

Output data

Output signal	0~20mA;4~20mA;HART;0~5V;1~5V
Current output load resistance	$RL \leq 300\Omega, RL \geq 250\Omega$ (HART)
Voltage output load resistance	$RL \geq 330k\Omega$

Power supply

Supply voltage(Ue)	20 ~ 35V DC
Power protection	Reverse protection of power supply
Current consumption	≤75mA (at 24Vdc supply,20mA output)
Power supply mode	Independent power supply
Power connecting mode	Backplane

Dimensions

Depth	114.0mm
Height	103.6mm
Width	15.8mm

Housing

Brand	Phoenix
Material	PC
Degree of protection	IP20
Flammability rating	UL94/V0
Colour	gray

Product approvals

Approvals	NEPSI
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Standard/Specification

NEPSI	[Ex ia Ga] IIC Comply with standard: GB 3836.1、 GB 3836.4、 GB 3836.20 [Ex iaD] Comply with standard: GB 12476.1、 GB 12476.4
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Safe data(EX)

Max. r.m.s. a.c. or d.c. voltage U_m	250V
Max.output voltage U_o	28V(1,2,3)
Max.output current I_o	93mA(1,2,3)
Max.output power P_o	651mW(1,2,3)
IIC Max. external inductance L_o	4.2mH(1,2,3)
IIC Max. external capacitance C_o	0.083 μ F(1,2,3)
IIB Max. external inductance L_o	12.6mH(1,2,3)
IIB Max. external capacitance C_o	0.65 μ F (1,2,3)
IIA Max. external inductance L_o	33.6mH(1,2,3)

IIA Max. external capacitance Co	2.15μF(1,2,3)
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EMC data

Electrical fast transient/burst immunity	According to:IEC 61326-1;Class A
Surge immunity	According to:IEC 61326-1;Class A
Radiated,radio-frequency,electromagnetic field immunity	According to:IEC 61326-1;Class A
Electrostatic discharge immunity	According to:IEC 61326-1;Class B
Immunity to conducted disturbances, induced by radio-frequency fields	According to:IEC 61326-1

Data communication

HART	Yes
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Operating conditions

Ambient temperature	-20°C~ +60°C
Storage temperature	-40°C ~ +80°C
Relative humidity	10% ~ 90%
Environmental requirements	The air should not contain any medium corrupting the coat of chrome,nickel and silver.Moreover,violent quiver and impact or any cause of electromagnetic induction (such as big current or spark,etc.)must be avoided when using

Connection data

Conductor cross section solid range	0.5~2.5mm ²
Conductor cross section flexible range	0.5~2.5mm ²
Conductor cross section AWG min.	12
Conductor cross section AWG max.	24
Stripping length	8mm
Screw thread	M3
Connection method	Line spring connection
Tightening torque min.	0.5 Nm
Tightening torque max.	0.6 Nm

Installation

Mounting type	DIN35mm
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Notes

Utilization restriction	1. It is not allowed to use HHC (HART hand-held communicator) in hazardous area and safe area at the same time.2. HHC (HART hand-held communicator) used in hazardous area must have an EX certification.
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