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GS5031-EX AI,Isolated Barrier(1 channel,Loop powered)



Number of channels: 1input/1output

Input signal: 4~20mA

power distribution: $(U_e - R_L \times 0.02 - 6) / 20\text{mA}$

Output signal: 4~20mA

Power Supply Mode: Loop Power Supply

Power Connection Mode: Terminal Power Supply

HART: Support

产品参数

General

Number of channels	1input/1output
Dielectric strength	Between non-intrinsically safe part and intrinsically safe part $\geq 2500\text{VAC}$
Output accuracy(20°C)	0.4%F.S(Application 1);0.2%F.S(Application 2)
Temperature drift	0.01%F.S./°C
Insulation resistance	Between non-intrinsically safe part and intrinsically safe part $\geq 100\text{M}\Omega$
Electromagnetic compatibility	According to IEC 61326-1(GB/T 18268)
EX marking	[Ex ib Gb] IIC [Ex ibD]
Weight	Approx 150g

Field apparatus	Application1: 2-wire HART Transmitter,2-wire Transmitter Application 2: 2-wire Valve Positioner, Electrical Converter
Suitable location	zone 1;zone 2;IIA;IIB;IIC;T4~T6

Input data

Input signal	4~20mA;HART
Distribution voltage	$U_o \geq U_e - R_L \times 0.02 - 6$ (Application 1)

Output data

Output signal	4~20mA;HART
Current output load resistance	$R_L \geq 250\Omega$ (HART)
Load ability	$R_L \leq (U_i - 6) / 0.02$ (Application 2)

Power supply

Supply voltage(U_e)	20~30V DC(Application 1)
Power protection	Reverse protection of power supply
Power supply mode	Loop powered
Power connecting mode	Terminal

Dimensions

Depth	114.5mm
Height	99.0mm
Width	17.5mm

Housing

Material	PA
Degree of protection	IP20
Flammability rating	UL94/V0
Colour	green

Product approvals

Approvals	NEPSI
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Standard/Specification

NEPSI	[Ex ib Gb] IIC Comply with standard: GB 3836.1、 GB 3836.4 [Ex ibD] Comply with standard: 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	23.1V(7,8)

Max.output current I_o	29mA(7,8)
Max.output power P_o	670mW(7,8)
IIC Max. external inductance L_o	0.5mH(7,8)
IIC Max. external capacitance C_o	0.096 μ F(7,8)
IIB Max. external inductance L_o	1.5mH(7,8)
IIB Max. external capacitance C_o	0.288 μ F(7,8)
IIA Max. external inductance L_o	4.0mH(7,8)
IIA Max. external capacitance C_o	0.528 μ F(7,8)

EMC data

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

disturbances, induced by radio-frequency fields	
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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	Screw 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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