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### GS5036-EX AI,Isolated Barrier(2 channels)

Analogue Input Isolated Barrier,It can provide the transmitter located in the hazardous area a separate power, transfer current signal generated by transmitter from a hazardous area to a safe area, can also transfer current signal from a safe area to a hazardous area and drive equipments like actuator in field. 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: 2inputs/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: Terminal Power Supply

HART: Support

## 产品参数

### General

Number of channels	2inputs/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 150g
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	$R_L \leq 300\Omega$

resistance	
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	$\leq 100mA$ (at 24Vdc supply, 20mA output)
Power supply mode	Independent power supply
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
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## 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(7,8,9;10,11,12)
Max.output current $I_o$	93mA(7,8,9;10,11,12)
Max.output power $P_o$	651mW(7,8,9;10,11,12)
IIC Max. external inductance $L_o$	4.2mH(7,8,9;10,11,12)
IIC Max. external capacitance $C_o$	0.083 $\mu$ F (7,8,9;10,11,12)
IIB Max. external inductance $L_o$	12.6mH(7,8,9;10,11,12)
IIB Max. external capacitance $C_o$	0.65 $\mu$ F(7,8,9;10,11,12)

IIA Max. external inductance $L_o$	33.6mH(7,8,9;10,11,12)
IIA Max. external capacitance $C_o$	2.15 $\mu$ F(7,8,9;10,11,12)

## EMC data

Electrical fast transient/burst immunity	According to:IEC 61326-1;Class A
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 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
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## Connection data

Conductor cross section solid range	0.5~2.5mm <sup>2</sup>
Conductor cross section flexible range	0.5~2.5mm <sup>2</sup>
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.

## 上海辰竹仪表有限公司

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