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GS5032-EX AI,Isolated Barrier(2 channels,Loop powered)



Number of channels: 2inputs/2outputs
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 | 2inputs/2outputs |
| 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 |

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

Input data

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

Output data

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|--------------------------------|---|
| 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

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|-------------------------|------------------------------------|
| 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

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|--------|---------|
| Depth | 114.5mm |
| Height | 99.0mm |
| Width | 17.5mm |

Housing

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

Product approvals

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| Approvals | NEPSI |
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Standard/Specification

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|-------|---|
| NEPSI | [Ex ib Gb] IIC Comply with standard: GB 3836.1、 GB 3836.4 [Ex ibD] Comply with standard: GB 12476.4 |
|-------|---|

Safe data(EX)

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| Max. r.m.s. a.c. or d.c. voltage U_m | 250V |
| Max.output voltage U_o | 23.1V(7,8;10,11) |

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| Max.output current I _o | 29mA(7,8;10,11) |
| Max.output power P _o | 670mW(7,8;10,11) |
| IIC Max. external inductance L _o | 0.5mH(7,8;10,11) |
| IIC Max. external capacitance C _o | 0.096μF(7,8;10,11) |
| IIB Max. external inductance L _o | 1.5mH(7,8;10,11) |
| IIB Max. external capacitance C _o | 0.288μF(7,8;10,11) |
| IIA Max. external inductance L _o | 4.0mH(7,8;10,11) |
| IIA Max. external capacitance C _o | 0.528μF(7,8;10,11) |

EMC data

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|---|----------------------------------|
| 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 |

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| disturbances, induced by radio-frequency fields | |
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Data communication

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| HART | Yes |
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Operating conditions

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| 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

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|--|------------------------|
| 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 |

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| Screw thread | M3 |
| Connection method | Screw connection |
| Tightening torque min. | 0.5 Nm |
| Tightening torque max. | 0.6 Nm |

Installation

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|---------------|---------|
| Mounting type | DIN35mm |
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Notes

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| 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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上海辰竹仪表有限公司
SHANGHAI CHENZHU INSTRUMENT CO.,LTD.

如需更多信息，请与辰竹联系 For more information, please contact:

销售服务 Sale service: 021-64360668 邮箱 Mail: chenzhu@chenzhu-inst.com

技术支持 Tech service: 400 881 0780 网址 Web: www.chenzhu-inst.com