Communication Input

1/1: GS8590-EX.3

Communication signals input isolated barriers, realize the bi-direction communication of CAN digital signals between hazardous area and safe area. It also provides isolated power supply for field instruments. The product needs an independent power supply and galvanic isolation among power supply, input and output.

Specification

Supply Voltage: 20~35V DC Current Consumption:

≤100mA(Supply voltage: 24V, Distribution power: 50mA)

≤140mA(Supply voltage: 24V, Distribution power: 5V/100mA or 6V/90mA)

Safe-area:

Signal: CAN digital signal Transmission delay: ≤10μs Signal transmission rate: ≤250kbps Drive Ability: up to 8 transceivers

Hazardous-area:

Signal: CAN digital signal

Distribution Power: 5V/100mA、6V/100mA、8V/50mA、9V/50mA、

12V/50mA

Distribution Voltage Deviation: ±10%

Function of the DIP Switches:

| Distribution voltage | K1 | K2 | K3 | K4 |
|----------------------|-----|-----|-----|-----|
| 12V/50mA | OFF | OFF | OFF | OFF |
| 9V/50mA | ON | OFF | OFF | OFF |
| 8V/50mA | ON | ON | OFF | OFF |
| 6V/100mA | ON | ON | ON | OFF |
| 5V/100mA | ON | ON | ON | ON |

Power Supply Protection: Power supply reverse protection

EMC: According to IEC 61326-1(GB/T 18268) **Ambient Temperature:** -20°C~+60°C

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 \geq 100M Ω

Between power supply part and output part ≥100MΩ

Structure: GS8500 range structure customized by Phoenix Contact

Weight: Approx.150g

 $\textbf{Suitable Location:} \ \ \text{Mounting in safe area, and connected to the IS}$

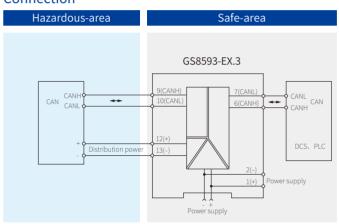
apparatus in hazardous area up to zone0 IIC and zone20 IIIC.

Suitable Field Apparatus: With CAN communication interface device



Dimensions: 118.9mm×106.0mm×17.5mm

Connection



Note: Bus-powered function is optional, if necessary please specified when ordering, and purchase bus power accessories in additional.

Explosion-proof Certificate

Certifying Authority: NEPSI(China)

Ex Marking: [Ex ia Ga] II C

[Ex iaD]

Maximum Voltage: Um=250V

Intrinsic Safety Parameters (9, 10 terminals):

(12、13 terminals):

* II B Intrinsic Safety Parameters are also suitable for dust explosion protection[Ex iaD]