1/1：GS8593B-EX

Communication signals input isolated barriers, realize the bi-direction communication of RS-485(half duplex) 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.

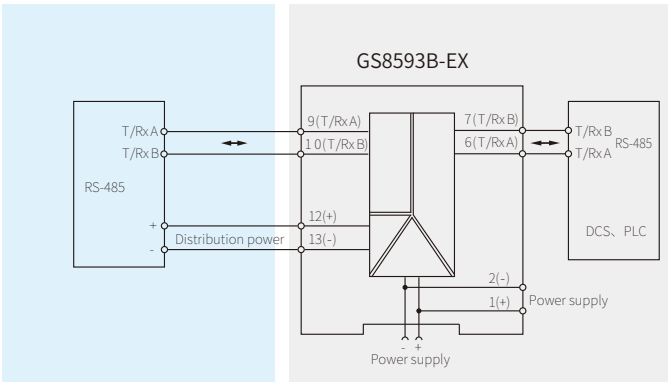
Dimensions：118.9mm×106.0mm×17.5mm

Specification

Supply Voltage： 20~35V DC
Current Consumption：
⩽160mA(Supply voltage: 24V, Distribution power: 9V/140mA)
Safe-area：
Signal：RS-485(half duplex)
Transmission delay：⩽10μs
Signal transmission rate：⩽56kbps
Drive Ability：up to 32 transceivers
Hazardous-area：
Signal：RS-485(half duplex)
Distribution Power：Open- circuit voltage⩽17V
Distribution voltage：9V±10% at 140mA
Power Supply Protection： Power supply reverse protection
EMC： According to IEC 61326-1(GB/T 18268)
Ambient Temperature： -25℃~+60℃
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 ⩾100MΩ
Between power supply part and output part ⩾100MΩ
Structure：GS8500 range structure customized by Phoenix Contact
Weight： Approx.150g
Suitable Location： Mounting in safe area, and connected to the IS apparatus in hazardous area up to zone0 IIC and zone20 IIIC.
Suitable Field Apparatus： With RS-485 half duplex communication interface device

Connection

Hazardous-area	Safe-area



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)：
U_O=6.6V，I_O=65mA，P_O=110mW
II C：C_O=22μF，L_O=8mH
*II B：C_O=500μF，L_O=24mH
II A：C_O=1000μF，L_O=64mH
(12、13 terminals)：
U_O=17.22V，I_O=430mA，P_O=2.1mW
II C：C_O=0.333μF，L_O=151.7μH
*II B：C_O=1.93μF，L_O=455.1μH
II A：C_O=8.1μF，L_O=1213.6μH
* II B Intrinsic Safety Parameters are also suitable for dust explosion protection[Ex iaD]