Digital Output

1/1：GS8523-EX.I

Digital output isolated barrier, with 12V/45mA output to hazardous area, is controlled by switches and logic signal in the safe area. This product is suitable for driving IS devices such as solenoid valves, LED and some other low-power loads located in the hazardous area. This product needs independent power supply and galvanic isolation among power supply, input and output.

Dimensions：118.9mm×106.0mm×12.5mm

Specification

Supply Voltage： 20~35V DC
Current Consumption： ⩽80mA(Supply voltage: 24V; output: 45mA)
Safe-area Input：

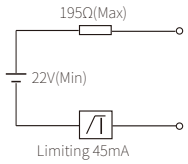
If input switch or transistor is close, power the devices located in hazardous area.

If input switch or transistor is open, stop powering the devices located in hazardous area.

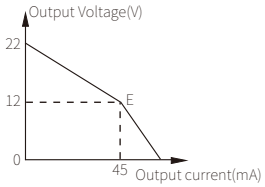
Hazardous-area Output：

Open-circuit Voltage：22V~24V
Output voltage at 45mA：⩾12V

Equivalent Output Circuit：



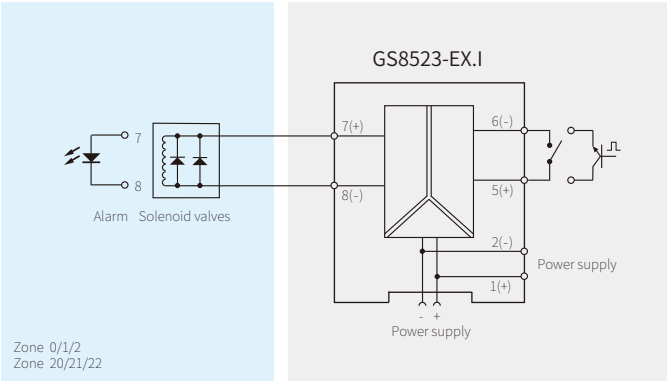
Output Characteristic：



Response Time： ⩽20ms
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 input part⩾500V AC
Insulation Resistance：
Between non-intrinsically safe part and intrinsically safe part⩾100MΩ
Between power supply part and input part⩾100MΩ
Structure： GS8500 range structure customized by Phoenix Contact.
Weight： Approx. 100g
Suitable Location： Mounting in safe area or zone2(for ec protection), and connected to the IS apparatus in hazardous area up to zone 0 IIC and zone 20 IIIC.
Suitable Field Apparatus： solenoid valves, LED.

Connection

Hazardous-area	Safe-area/Zone 2



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

Explosion-proof Certificate

Certifying Authority： NEPSI(China)
Ex Marking： [Ex ia Ga] II C
[Ex iaD]
Ex nA II C T4 Gc
Maximum Voltage： Um=250V
Intrinsic Safety Parameters(7、8 terminals)：

U_O=25V，I_O=140mA，P_O=875mW
II C：C_O=0.11μF，L_O=1.5mH
★II B：C_O=0.84μF，L_O=4.5mH
II A：C_O=2.97μF，L_O=12.0mH
I：C_O=4.87μF，L_O=23mH

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