

I-9333

Intrinsically Safe Interface



Description

I-9333 Interface can connect with intrinsically safe sounder in explosion-proof system. Receiving the start command from fire alarm control panel, the interface will activate explosion-proof devices in field.

Built-in safety barrier, it is a relative device to restrict the energy to the explosive area.

Features and Benefits

- Power supply monitored
- Output cable monitored
- Metal cabinet, high water-proof and anti-interference abilities

Terminals

In "Intrinsically Safe Area", there are two terminals 3(+) and 4(-) of safety barrier, anode of intrinsically safe device connects with 3(+), and its cathode with 4(-).

In "Non-intrinsically safe" side there are six terminals. Z1, Z2 connects with loop, non-polarized. D1, D2

connects with 24VDC, non-polarized. S, G connects with remote control input.

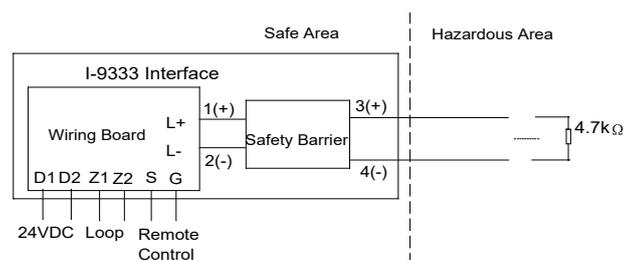
In addition, enclosure of the interface must connect to Ground through the brass bolts.

Recommended Cabling

1.0mm² or above fire cable is recommended, laid through metal or flame-retardant conduit, but subject to local codes.

The capacitance distributed among cables should not be over 0.083μF, and the inductance distributed should not be over 4mH.

Typical Connection

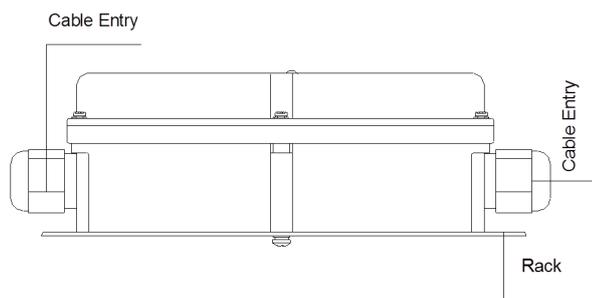
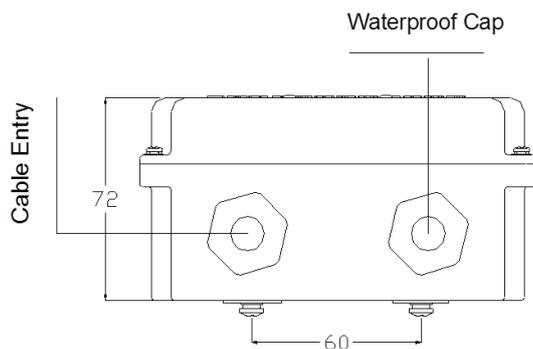
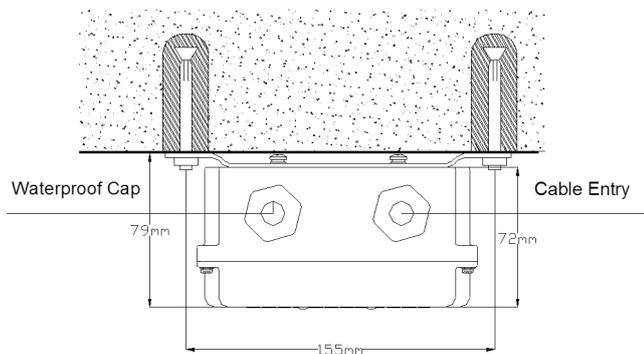


Installation and Application

The interface can be mounted on the wall with a mounting bracket, or directly mounted into rack with screws from back.

Warning:

This interface should be mounted in safety area. The wire from “Non-intrinsically safety” and those from “Intrinsically safety” should be separated from each other and be kept a certain distance (at least 50mm). Strictly follow the relative explosion-proof code when installing.



Technical Specification

Operating Voltage	Loop voltage: 24V Power voltage: 24VDC
Loop Current	Standby current≤0.5mA Alarm current≤5mA
Power Current	Alarm current≤5mA
Output Capacity	60mA, to one explosion-proof sounder
Address Range	Electronically addressed, 1 ~ 242
Ingress Protection Rating	IP65
LED	Alarm: Red Fault: Yellow
Internal safety barrier	U0=28V, I0=93mA, L0=4mH, C0=0.083 μ F
Environmental Temperature	-10°C ~ +50°C
Relative Humidity	≤95%, non condensing
Dimensions	201 mm×172 mm×79 mm
Material and Color of Enclosure	Cast aluminum alloy, silver grey
Weight	1kg
Mounting Hole Spacing	155mm or 60mm

Order Information

Part No.	I-9333
Device Name	Intrinsically Safe Interface
Product No.	10101573
Compatible Products	DC-9403(IS) Intrinsically Safe Sounder Strobe DC-9404(IS) Intrinsically Safe Sounder

Accessories and Tools



Part No.: P-9910B
Device name: Handheld Programmer
Product No.: 10104894