DC-9202（IS）
Intrinsically Safe
Conventional Manual Call Point

Features

✧ Plug-in design, easy for installation. The base can be installed first, and MCP body installed after connection of cables. The triggering glass is restorable using a special key after being pressed.

✧ Pressing the glass will provide an independent output contact to control other devices through an external safety barrier.

Description

DC-9202(IS) Intrinsically Safe Conventional Manual Call Point is installed in public areas. When there is fire, pressing the glass on this MCP, alarm signal can be sent to fire alarm control panel (FACP). The FACP will then display the address of I-9332 interface and gives fire alarm sound. It's mainly applicable to inflammable and explosive areas in petroleum, chemical industries.

Connection and Wiring

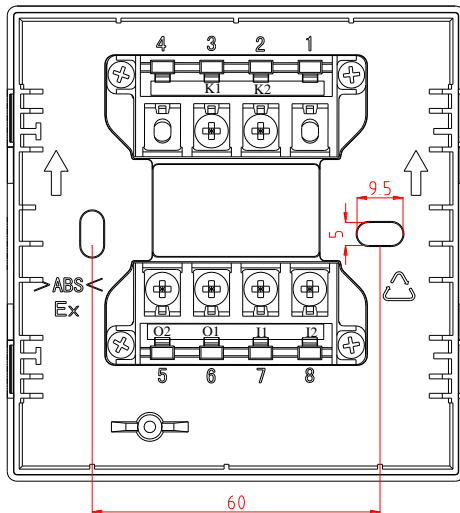Terminal of the MCP is shown in Fig. 1.

Fig. 1

I1, I2: Connects to safe side of safety barrier.
Maxi input parameter: U_i=28V，I_i=100mA，C_i=0，L_i=0、P_i=651mW
Intrinsic Safety Parameters for K1, K2: U_i=30V，I_i=100mA，C_i=0，L_i=0，P_i=750mW.
O1, O2: Connects to the next device.

Recommended Wiring

It's recommended to use intrinsically safe cables with cross section not less than 1.0mm^2. Distributed capacitance between cables shall not be over 0.083µF, and distributed inductance not over 4.1mH.

Installation and Cabling

Warning: Before installing the MCP, disconnect power from the loop and verify that all bases are securely installed and that the wiring polarity is correct at each base.

(1) Before installation, check if the enclosure is in good condition and labels are complete.

(2) Remove the MCP first, thread cables through the wiring hole on the base and connect to corresponding terminals, and then put back the MCP. Mounting-hole distance is 60mm (Fig. 4). The conduit can be surface mounted or flush mounted as shown in Fig. 2 and Fig. 3.
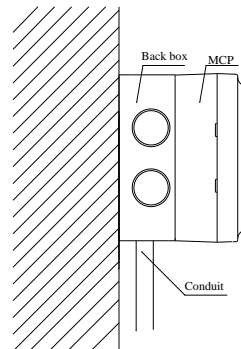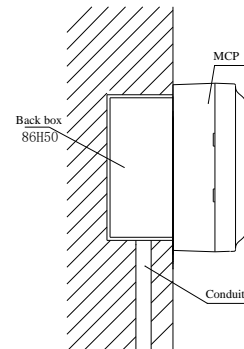

Fig. 2   Fig. 3

Application

When this MCP is connected with I-9332 Interface, explosion-proof photoelectric smoke detector, explosion-proof heat detector, a 4.7kΩ end of line resistor should be connected at the end of the loop. System connection is shown in Fig. 4.

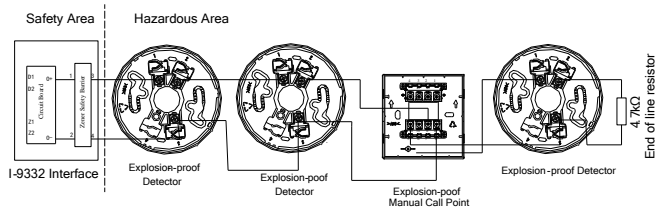
Fig. 4

Operation

(1) The MCP shall be in normal standby state.

(2) Pressing the glass in case of fire, the alarm indicator shall illuminate and the FACP shall display the alarm message.

(3) Please reset the MCP in time when fire condition is cleared.

(4) How to use the key

Open the flip cover with the sign of a key at the bottom of the front side, and insert the key vertically into the hole and push it home. Rotate the key clockwise until the alarm element is bounced back in place. Remove the key and replace the flip cover.

Testing

Warning: Power up only after all devices are connected.

(1) Test the MCP after installation or during operation at least once a year.

(2) Before testing, notify the proper authorities that the system is undergoing maintenance and will temporarily be out of service. Disable the zone or system undergoing maintenance to avoid unwanted alarms.

(3) Pressing the glass, the red alarm indicator shall constantly illuminate.

(4) After testing, reset the MCP by the special key. Notify the proper authorities the system is back in operation.

(5) If the MCP fails the test, check if its connection is correct and retest it. If it still fails, please return it for repair.

Caution

(1) The total number of explosion-proof detectors and explosion-proof manual call points in the system shall not be over 10.

(2) Never repair the MCP on site with power on. Always follow relative rules.

(3) For products that are tested to be explosion-proof, components and construction that may affect explosion-proof performance shall not be replaced or changed during repair.

(4) This manual call point connects with zener safety barrier.

Specification

Operating Voltage	Power Loop 24VDC (16VDC~28VDC)
Operating Current	Standby Current: 0mA Alarm Current ≤30mA
Output Capacity	Volt-free normally open output contact signal, rated 30VDC/100mA, contact resistance≤0.1Ω
Type of Initiating Part	Reusable
Initiating Mode	Pressing the glass manually
Reset Mode	Reset by a special key
Fire Alarm Indicator	Red. It is off normally and illuminates under fire condition
Wiring	Two-wire
Operating Environment	Type: Indoor Temperature: -10℃~+55℃ Relative Humidity≤95%, non-condensing
Dimensions	95.4mm×98.4mm×45.5mm (with base)
Ingress Protection Rating	IP43
Explosion-proof Mark	Exib II CT6 Gb
Explosion-proof Certificate Number	CE11.2142
Material and Color of Enclosure	ABS, red. $10^7 \Omega \leq$ surface resistance≤$10^9 \Omega$, plexiglass in front
Weight	About 221g (with base)
Mounting Hole Distance	60mm
Safety Zener Barrier Output Parameters	U_0=28V, I_0=93mA

Limited Warranty

GST warrants that the product will be free from defects in design, materials and workmanship during the warranty period. This warranty shall not apply to any product that is found to have been improperly installed or used in any way not in accordance with the instructions supplied with the product. Anybody, including the agents, distributors or employees, is not in the position to amend the contents of this warranty. Please contact your local distributor for products not covered by this warranty.

This Data Sheet is subject to change without notice. Please contact GST for more information or questions.

Gulf Security Technology Co., Ltd.

No. 80, Changjiang East Road, QETDZ, Qinhuangdao, Hebei, P. R. China 066004

Tel: +86 (0) 335 8502434   Fax: +86 (0) 335 8502532

service.gst@fs.utc.com   www.gst.com.cn