

Features

- ✧ High bright red LEDs are used as light source.
- ✧ High sound level.
- ✧ Circuitry and base are twisted together.
- ✧ Standard: EN 54-3.

Description

C-9404(Ex) Explosion Proof Conventional Sounder and C-9403(Ex) Explosion Proof Conventional Sounder Strobe (hereinafter called the sounder/sounder strobe) is a kind of audible/audible and visual alarm device used to warn people in field when fire occurs. It's applicable to zone 1 and zone 2 of areas with explosion-proof requirement in petroleum and chemical industries. It can match with I-9333 Interface.

Both shallow base with 25.5mm high and deep base with 40mm high are available, it employs deep base if there is no special statement in this manual.

Connection & Wiring

Terminals on the base are shown in Fig. 2.

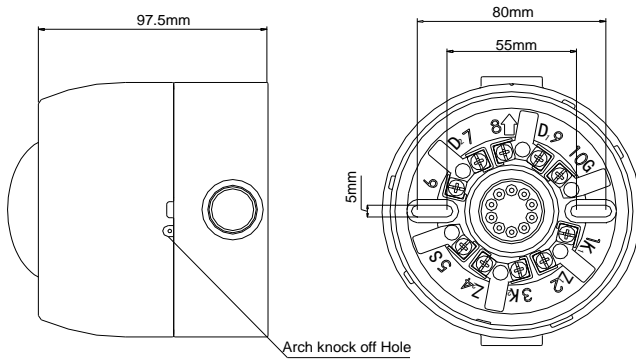


Fig. 1

Fig. 2

D1+(9), D2- (7): Connected with I-9333 Interface, polarized. D1 is connected with (3) of the safety barrier and D2 to (4).

Recommended Wiring

Intrinsically safe cable with cross section not less than 1.5mm², subject to local codes.

Installation

✧ When the sounder/sounder strobe is surface mounted, it should be placed 0.2m from the ceiling for normal space height. When conduit is embedded, the base can be mounted on the electrical box. When conduit is surface mounted, the deep base should be adopted. Knock the knock-off hole, then connect the conduit with it. The mounting hole spacing and mounting direction are shown in Fig. 2. Mounting method is shown in Fig. 3a and Fig. 4. When the shallow base is required, the sounder/sounder strobe only adopts conduit embedded. Its mounting method is shown in Fig. 3b.

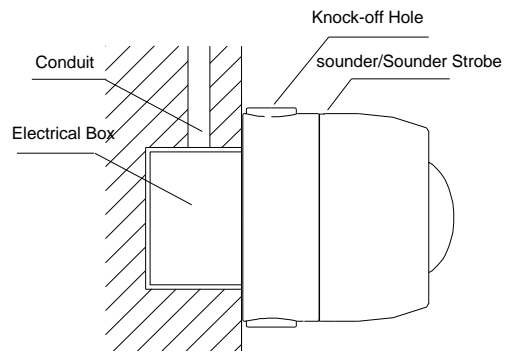


Fig. 3a

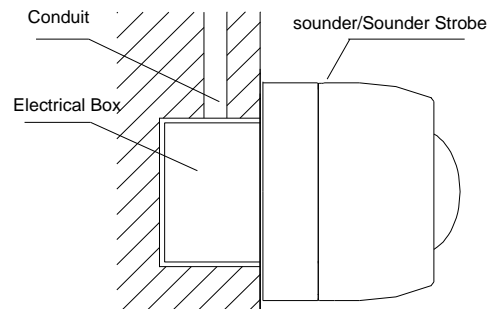


Fig. 3b (shallow base)

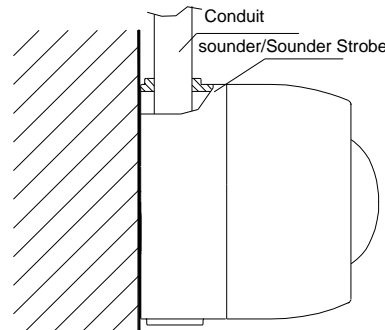


Fig. 4

✧ The base and the sounder/sounder strobe are twisted together. When mounting, remove the sounder strobe, thread cables through the cable entry in the base and connect with corresponding terminals, then twist the sounder/sounder strobe onto the base.

✧ If the sounder/sounder strobe is required anti-removal, knock down the arch knock-off hole as shown in Fig. 1 and fix it with ST2.9×6.5 tapping screws (in this case, it must be removed by a special tool).

Application

the sounder/sounder strobe can match I-9333 Interface to form an intrinsically safe system. The system wiring is shown in Fig. 5.

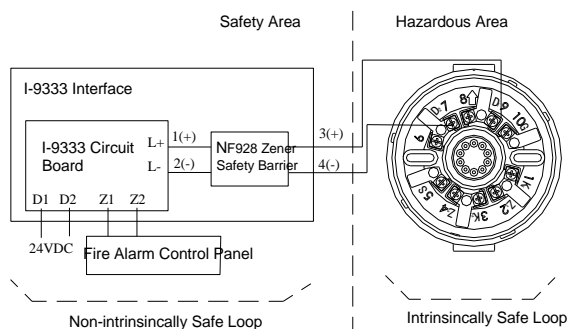


Fig. 5

Cautions

1. I-9333 Interface should be installed in safety area, the wires of "Safety Area" should be separated from those of "Hazardous Area", and be kept a certain distance (at least 50mm).
2. The safety barrier should be well grounded. The screws should not be loose. Ground resistance should not be over 1Ω. The parameters assigned in the intrinsically safe loop should not be over the specified value, that is, the capacity assigned among cables should not be over 0.02μF, the inductance assigned not over 2mH.
3. During maintenance, products passing the explosion-proof test should not be replaced and parts and structure affecting explosion-proof functions should not be modified.

Sound Level Data (Complies to EN54-3)

Fixed tone, Maximum Volume

| Angle | Horizontal | | Vertical | |
|-------|------------|-------|----------|-------|
| | 18V | 28V | 18V | 28V |
| 15° | 74.47 | 78.16 | 71.95 | 75.55 |
| 45° | 81.85 | 86.44 | 82.03 | 85.36 |
| 75° | 88.06 | 92.47 | 87.88 | 91.66 |
| 105° | 88.15 | 91.93 | 89.14 | 92.92 |
| 135° | 80.50 | 85.54 | 82.48 | 87.07 |
| 165° | 62.32 | 66.37 | 73.93 | 78.07 |

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

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Specification

| | | |
|-------------------------------------|-----------|--|
| Power voltage activating | Loop when | 24VDC (16VDC~28VDC) |
| Power voltage in standby state | Loop | 7VDC (5VDC~8VDC) |
| standby current | | ≤5mA |
| active current | | ≤50mA |
| Wiring | | Polarized two-wire with I-9333 Interface |
| Sound Level | | See the above sound level data table |
| Flashing Frequency | | 1.4x(1±20%)Hz (C-9403(Ex)) |
| Tone Modification Period | | 0.7s±20% |
| Explosion-proof marking | | Exib II CT6 |
| Security Barrier Parameters (NF928) | | U ₀ =28V, I ₀ =93mA |
| Ingress Protection Rating | | IP33 |
| Operating Temperature | | -10℃~+50℃ |
| Relative Humidity | | ≤95%, non condensing |
| Material and Color of Enclosure | | ABS, red (PANTONE 1795C) |
| Dimension (LxWxH) | | φ110mm×97.5mm (deep base) φ110mm×83mm(shallow base) |
| Mounting Hole Spacing | | 55mm~80mm |
| Weight | | C-9404(Ex): About 340g(deep base)About 312.2g(shallow base) C-9403(Ex): About 350g(deep base)About 322.2g(shallow base) |

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.