Technical Manual for the Fire Alarm Call Point - SM87 PBL

Please note that every care has been taken to ensure the accuracy of our technical manual. We do not, however, accept responsibility for damage, loss or expense resulting from any error or omission. We reserve the right to make alterations in line with technical advances and industry standards.

1. INTRODUCTION

These fire alarm call point units have been designed for use in harsh environmental conditions.

2. INSTALLATION

General

When installing and operating explosion-protected electrical equipment, requirements for selection, installation and operation should be referred to eg. IEC 60079-14 worldwide and the 'National Electrical Code' in North America. Additional national and/or local requirements may apply.

Ensure that all nuts, bolts and fixings are secure.

Ensure that only the correct UL listed stopping plugs are used to blank off unused gland entry points and that the NEMA/IP rating of the unit is maintained.

The SM87PBL is mounted via 4 x ∅ 0.354" (9mm) fixing holes in the base.

The fixing holes have been designed to accept an M8 caphead screw or bolt. MEDC recommend the use of stainless steel screws.

Cable Termination

Unscrew and remove the 4 off screws holding the cover assembly to the base. Keep in a safe, accessible location.

Twist the cover assembly gently clockwise and anti-clockwise, whilst pulling it away from the base. Remove to gain access to the interior of the base.

Cable termination should be in accordance with specifications applying to the application. MEDC recommend that all cables and cores should be fully identified.

Ensure that only correct UL Listed cable glands are used and that the assembly is shrouded and correctly earthed.

All cable glands should be of an equivalent NEMA/IP rating to that of the call point and integrated with the unit such that this rating is maintained.

The internal earth terminal (where fitted), must be used for the equipment grounding connection and the external terminal is for a supplementary bonding connection where local codes or authorities permit or require such a connection.

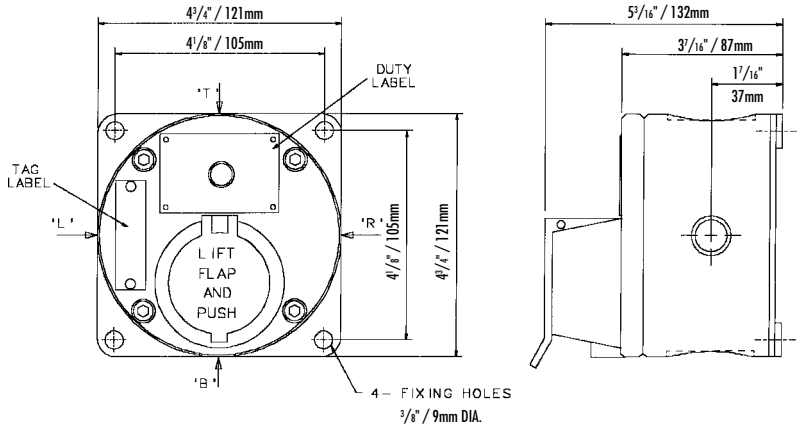
Once termination is complete, carefully push the cover assembly back onto the base, avoiding damage to the mating surfaces. Replace the 4 off screws into the holes in the cover assembly and tighten evenly, to ensure maintenance of the required gap between the cover & base.

3. OPERATION

The call point is operated by lifting the flap on the front of the unit, then depressing the stainless steel actuator underneath. The actuator remains latched in an operated position. To reset the call point, the key (provided with the unit) is inserted into the slot provided in the actuator front face and pulled back to the initial position. The key is then removed and the flap lowered.

GENERAL ARRANGEMENT

ALL DIMENSIONS IN INCHES AND MILLIMETERS



4. MAINTENANCE

During the working life of the call point, little or no maintenance is required. However, if abnormal or unusual environmental conditions occur due to plant damage or accident etc., then visual inspection is recommended.

If a fault should occur, it is recommended that the unit be returned to MEDC for repair. All parts are replaceable.

If you have acquired a significant quantity of units, it is recommended that spares are also made available. Please discuss your requirements with the Technical Sales Engineers at MEDC.

5. WARNING STATEMENTS

i) To reduce the risk of ignition of hazardous atmospheres, disconnect the equipment from the supply circuit before opening. Keep assembly tightly closed when in operation
ii) To reduce the risk of ignition of hazardous atmospheres, conduit runs must have a sealing fitting connection within 18 inches of the enclosure

Avertissements

i) Afin de réduire le risque d'allumage et d'incendie dans des atmosphères dangereuses, déconnectez l'équipement du circuit d'alimentation avant de procéder à son ouverture. Maintenez l'appareil fermé hermétiquement lors de son utilisation
ii) Afin de réduire le risque d'allumage et d'incendie dans des atmosphères dangereuses, les courses de conduits doivent être dotées d'un raccord d'étanchéité situé à 18 pouces ou moins du boîtier

6. CERTIFICATION/APPROVALS

Please refer to marking on the unit for specific approval details

- UL listed for use in USA (USL): Class 1, Division 1, Groups C & D; Class 1, Zone 1, Groups IIA & IIB
- UL Standards: UL1203 & UL864
- Suitable for hazardous location fire-alarm applications

7. CERTIFIED TEMPERATURE

−55°C to +55°C

−67°F to +131°F

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