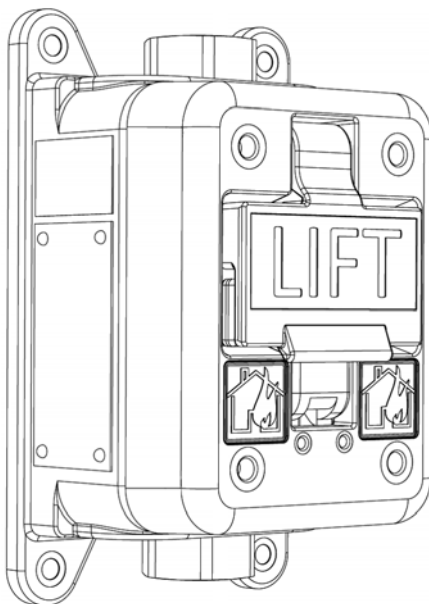




Technical Manual for the Alarm Pull Station – PH1
Manuel technique du dispositif d'alarme – PH1
Technische Bedienungsanleitung für die Alarm-Meldestationen – PH1
Manual técnico para Estação Manual de Alarme de Incêndio – PH1



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.

Merci de noter que nous avons pris toutes les précautions pour garantir l'exactitude des données de notre manuel technique. Nous déclinons cependant toute responsabilité pour les dommages, pertes ou frais résultant de toute erreur ou omission. Nous nous réservons le droit d'apporter des modifications conformes aux progrès techniques et aux normes de l'industrie.

Zu beachten: Obwohl wir die größtmögliche Sorgfalt darauf verwendet haben, die Richtigkeit unserer technischen Bedienungsanleitung zu gewährleisten, übernehmen wir jedoch keinerlei Verantwortung für Beschädigungen, Verluste oder Ausgaben, die aufgrund eines Fehlers oder einer Auslassung entstehen. Wir behalten uns das Recht vor, Änderungen gemäß dem technischen Fortschritt und der Industriestandards vorzunehmen.

É importante ressaltar que adotamos todas as medidas necessárias para garantir a exatidão dos nossos manuais técnicos. Todavia, declinamos toda e qualquer responsabilidade por danos, perdas ou despesas decorrentes de qualquer erro ou omissão. Reservamo-nos o direito de efetuar alterações em sintonia com os avanços técnicos e padrões industriais.

1.0 INTRODUCTION

These manual fire alarm pull stations have been designed for use in hazardous locations and harsh environmental conditions. The GRP enclosures are suitable for use offshore or onshore where light weight combined with a high level of corrosion resistance is required.

2.0 GENERAL SAFETY MESSAGES AND WARNINGS

All instructions and safety messages in this manual must be followed to allow safe installation of the device. The device must only be installed and maintained by correctly trained site personnel/installers.

- i. To reduce the risk of ignition of hazardous atmospheres and shock, do not apply power to the device until installation has been completed and the device is fully sealed and secured.
- ii. To reduce the risk of ignition of hazardous atmospheres and shock, keep device tightly closed when the circuit is energised.
- iii. Before removing the cover for installation or maintenance, ensure that the power to the device is isolated.
- iv. Following installation, test the device to ensure correct operation.
- v. Following installation ensure a copy of this manual is made available to all operating personnel
- vi. When installing the device, requirements for selection, installation and operation should be referred to e.g. IEE Wiring Regulations and the 'National Electrical Code' in North America. Additional national and/or local requirements may also apply.
- vii. Cable termination should be in accordance with specification applying to the required application. MEDC recommends that all cables and cores should be correctly identified. Please refer to the wiring diagram in this manual (or separate diagram provided with the unit).
- viii. Ensure that only the correct listed or certified cable glands are used and that the assembly is shrouded and correctly earthed.
- ix. Ensure that only the correct listed or certified stopping plugs are used to blank off unused gland entry points and that the NEMA/IP rating of the unit is maintained.
- x. MEDC recommend the use of a sealing compound such as HYLOMAR PL32 on the threads of all glands and stopping plugs in order to maintain the IP rating of the unit.
- xi. The internal earth terminal, where fitted, must be used for the equipment grounding and the external terminal, if available, is for a supplementary bonding connection where local codes or authorities permit or require such a connection.
- xii. When installing the device, MEDC recommends the use of stainless steel fasteners. Ensure that all nuts, bolts and fixings are secure.
- xiii. The pull station should not be mounted closer than 40mm to any solid object which does not form part of the unit.
- xiv. Blanking plugs are not to be used with the cable entries.
- xv. When fitting or removing cable entry glands, the cable entry inserts must be held with a suitable tool to prevent movement.

3.0 INSTALLATION

The unit is mounted via 4 off Ø6.5mm fixing holes in the base of the enclosure. The unit has been designed and certified to operate at any attitude.

The fixing holes have been designed to accept an M6 screw or bolt.

Access to Terminals

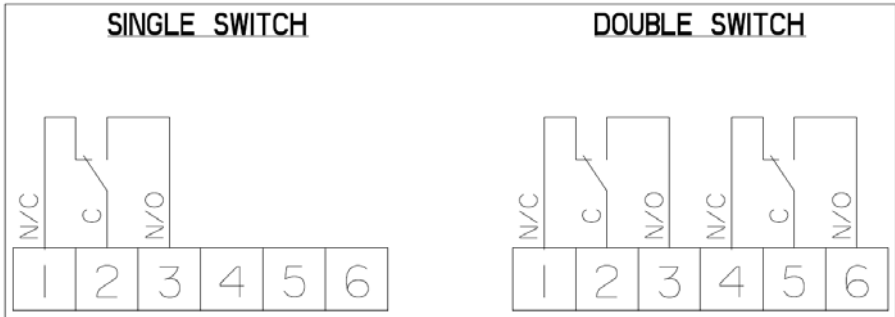
Unscrew the 4 off M6 screws (5.0mm A/F hexagon key) holding the cover assembly to the base. The cover screws are retained in the cover assembly for ease of installation. Gently lift the cover assembly away from the base of the enclosure to gain access to the interior.

Once termination is complete, carefully replace the cover assembly back onto the base of the enclosure, avoiding damage to the mating surfaces. Ensure the o-ring is correctly seated in its groove during re-assembly. Evenly tighten the 4 off M6 screws (5.0mm A/F hexagon key). Ensure the required gap (0.10mm Max.) is maintained between the cover and the base.

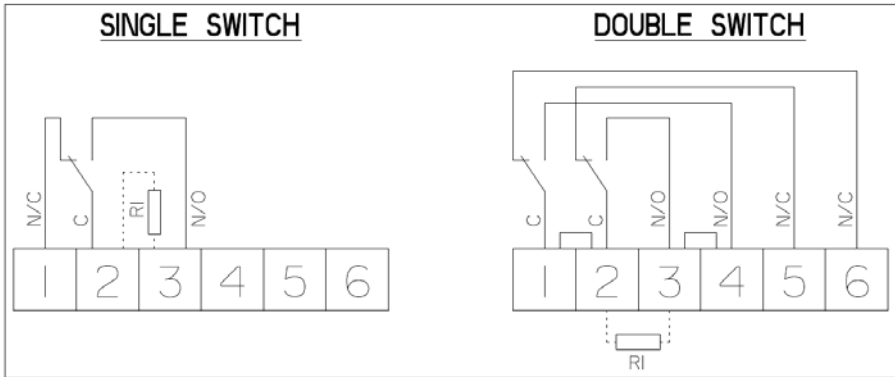
4.0 STANDARD WIRING OPTIONS

See below for the standard wiring options for the PH1. If a different wiring layout has been specified when ordering the unit, please see the separate diagram supplied with the unit.
EOL resistors should only be fitted to the last unit in a system.

Standard wiring – switch only

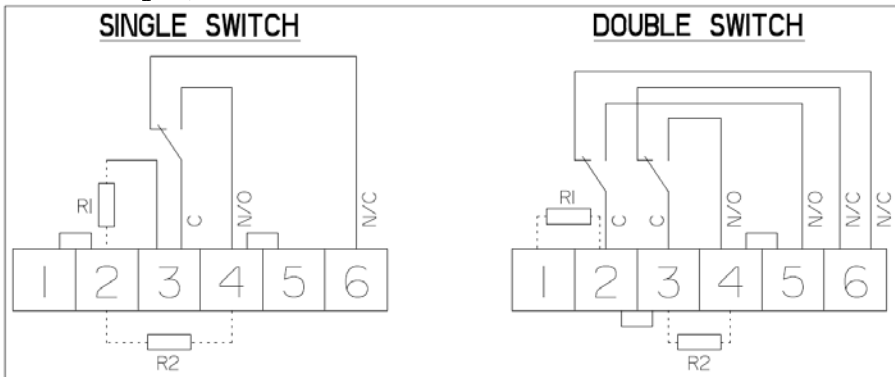


Standard wiring – c/w EOL resistor



R1 – EOL resistor

Standard wiring – c/w series resistor or series & EOL resistors



R1 – Series resistor
R2 – EOL resistor (if fitted)

5.0 OPERATION

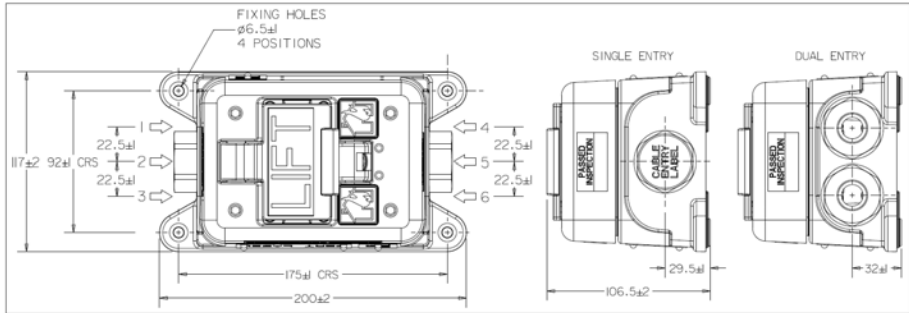
The unit is operated by lifting the spring loaded flap on the front of the unit, then pulling down the handle underneath. The pull handle will rotate downwards through 90 degrees. The pull handle will remain latched in the operated position until manually reset. The lift flap can be lowered back to its original position until the unit needs to be reset.

To reset the unit, first raise the lift flap away from the pull handle. The key (provided with the unit) is inserted into the two holes located underneath the pull handle in the front face until resistance is felt. Depress the key further to release the pull handle which can be returned to its original position. Finally, lower the lift flap back to its original position.

Note: When resetting the unit, please ensure the key is depressed centrally with even pressure on each leg of the reset key.

The operating voltage of the unit is stated on the certification label.

GENERAL ARRANGEMENT



6.0 MAINTENANCE

During the working life of the unit, it should require little or no maintenance. GRP will resist attack by most acids, alkalis and chemicals and is as resistant to concentrated acids and alkalis as most metal products.

However, if abnormal or unusual environmental conditions occur due to plant damage or accident etc., then visual inspection is recommended.

If the unit requires cleaning, then only clean the exterior with a damp cloth to avoid electrostatic charge build up.

If a unit fault should occur, then the unit can be repaired by MEDC. All parts of the unit are replaceable.

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

7.0 CERTIFICATION/APPROVALS

IECEx units

Certified to IEC 60079-0, IEC 60079-1 and IEC 60079-31

Ex d unit (IEC certification No. IECEx ITS 11.0021X)

Ex d IIC T6 (-55°C to +70°C) Gb

Ex tb IIIC T85°C (-55°C to +70°C) Db IP66

The IECEx certificate and product label carry the IECEx equipment protection level markings

Gb and Db

Where Gb signifies suitability for use in a Zone 1 surface industries area in the presence of gas.

Db signifies suitability for use in a Zone 1 surface industries area in the presence of dust.

ATEX units

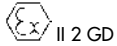
Certified to EN 60079-0, EN 60079-1 and EN 60079-31

Ex d unit (ATEX certification No. ITS1 1ATEX17308X)

Ex d IIC T6 (-55°C to +70°C) Gb

Ex tb IIIC T85°C (-55°C to +70°C) Db IP66

The ATEX certificate and product label carry the ATEX group and category marking:



Where:



Signifies compliance with ATEX

- II Signifies suitability for use in surface industries
- 2 Signifies suitability for use in a zone 1 area
- G Signifies suitability for use in the presence of gases
- D Signifies suitability for use in the presence of dust

These units also have the following approvals:

Ingress protection: IP67 to IEC60529

8.0 SPECIAL CONDITIONS FOR SAFE USE

1. The threaded inserts as supplied with the unit must not be removed or replaced.
2. Potential electrostatic charging hazard – clean only with a damp cloth.

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