

ROP-63 / ROP-63H Manual Call Points

Installation and Maintenance Manual
IK-E328-001-GB

Edition 4



Manual call points ROP-63, ROP-63H, which are the subject of this IMM, meet the essential requirements of the following regulations of the European Parliament and of the Council (EU) and European Union directives:

CPR CPR/305/2011 Regulation (EU) of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC;

EMC Directive 2014/30/EU on electromagnetic compatibility.

The product has been issued by CNBOP-PIB, notified body No. 1438, EC certificate of conformity confirming the possession of technical features/parameters required by PN-EN 54-11:2004+A1:2006 and EN 54-11:2001+A1:2005.

The Manufacturer's technical features/parameters exceeding the requirements of the listed standards and other features/parameters of the product specified in this manual not specified in the listed standards are confirmed by the Manufacturer.

The product has an approval certificate issued by CNBOP-PIB.

The manufacturer has issued a declaration of performance for the product.

The certificate, the certificate of approval and the Declaration of Performance are available on the website of www.polon-alfa.com.

Before starting installation and operation, read the contents of this manual.

Failure to follow the recommendations in this manual may prove dangerous or result in a violation of applicable regulations.

The manufacturer POLON-ALFA is not responsible for damage caused as a result of use inconsistent with these instructions.

A worn-out product, unfit for further use, should be handed over to one of the points dealing with the collection of waste electrical and electronic equipment.



Note - Right to make changes is reserved

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1. PURPOSE

The ROP-63 and ROP-63H manual call points operate in conventional detection lines and are designed to transfer information about noticed fire by their manual actuation of the device.

The ROP-63 in the standard version is designed for an indoor installation.

The ROP-63H with increased tightness is designed for an outdoor installation.

Both versions are surface and flush mounting adapted – flush-mounted version is the basic version on sale. The RM-60-R masking frame for surface mounting manual call point is not included with the device and must be ordered separately.

2. TECHNICAL SPECIFICATIONS

Device type	B according to EN 54-11:2004
Alarm Resistor	1 kOhm
Maximum load capacity	0.1 A / 30 VDC
Approved cable wire diameter	(0.8 ÷ 1.2) mm
Ingress protection:	
ROP-63	IP30
ROP-63H	IP55
Operating Temperature range:	
ROP-63	from -25 °C to +55 °C
ROP-63H	from -40 °C to +70 °C
Permissible relative humidity:	
ROP-63	up to 93 % at 40 °C
ROP-63H	up to 93 % at 55 °C
Dimensions	(102.5 x 98 x 45.5) mm
Mass	160 g
Housing color	red

3. SAFETY CONDITIONS

3.1. Repairs and maintenance

Maintenance works and periodic inspections must be carried out by personnel authorized or trained by POLON-ALFA.

Any repairs must be carried out by the manufacturer.

POLON-ALFA bears no responsibility for the operation of equipment maintained and repaired by unauthorized personnel.

3.2. Anti-dusting eye protection

When working that generates a lot of dust, especially drilling holes in walls, use safety goggles and anti-dust mask.

Power tools must be used in accordance with the conditions of their safe operation specified in the relevant manufacturer's instructions.

4. DESIGN DESCRIPTION

The manual call point consists of a body and a base connected with a hinge. The manual call point body contains its main parts: a printed circuit board with an electronic circuit, micro-switch and connector to install detecting line wires.

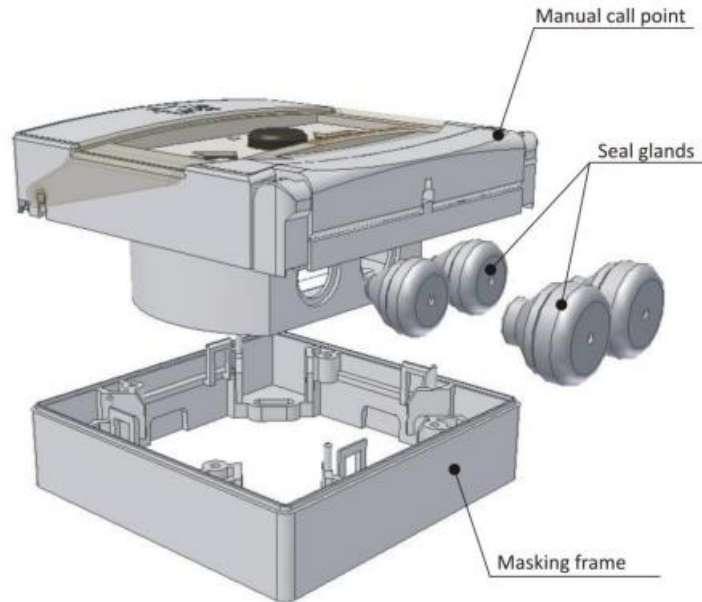


Figure 4.1 Manual call point general view

The manual call point of ingress protection is mounted on the wall plaster (surface mounting), using the RM-60-R masking frame. For wire sealing, the FET 3-5 sealing glands are attached, which are applicable for wires of external diameter between 3 to 5 mm. In case bigger cables are used (of the diameter from 5 to 7 mm), the FET 5-7 seal glands should be ordered separately. In order to apply the FET 5-7 seal glands it is necessary to increase the diameter of the openings drilled in the body up to 16.5 mm.

5. PRINCIPLE OF OPERATION

Manual call point actuation is carried out by hitting a plastic cover (which tilts aside) and pressing the push button.

The colour of the arrows in the call point control field changes from black to yellow, and the information about pressing the button is transmitted to the fire alarm control panel.

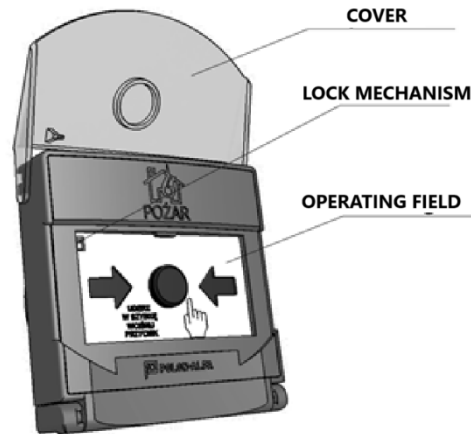


Figure 5.1 Manual call point with tilted glass

In order to clear the alarm status of the call point, press the glass against the body as shown in the picture Figure 5.2 and push the key (T shape tip) in from below until the arrows change to black. When the key is removed, the glass will be locked in the normal detection position.

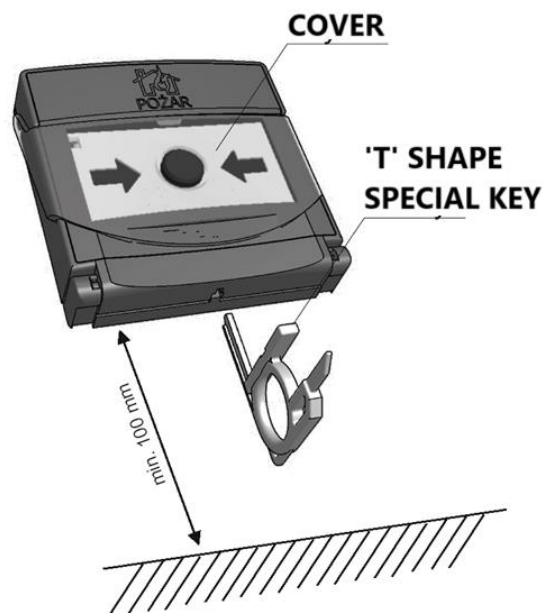


Figure 5.2 Alarm reset

Note:

If the glass is removed instead of pulled away (contrary to the instructions on the device) and the button is not pressed (the warning device will not be put into the alarm state), the glass should be pressed against the call point and by inserting the key from below as far as it will go, it should be blocked.

6. INSTALLATION

6.1. Place of installation and mounting

Depending on the design, the call points are installed inside or outside the building, in easily accessible, clearly visible places, preferably near transport roads, at a height of 900 - 1400 mm, in accordance with the technical specification CEN/TS 54-14:2018.

Spacing of mounting holes (diagonal - Figure 6.1.1 and Figure 6.1.2) should be delineated using the template - Do not use the warning device or masking frame alone for this purpose.

The manual call point is mounted on a flat surface using 2 \varnothing 6 wall plugs and cap screws, supplied with the device.

To flash-mount the device drill a hole with a diameter of 80 mm (a typical hole for an installation box) and a minimum depth of 22 mm with a core drill bit for the wall.

To mount the point rail on the surface, use the RM-60-R masking frame.

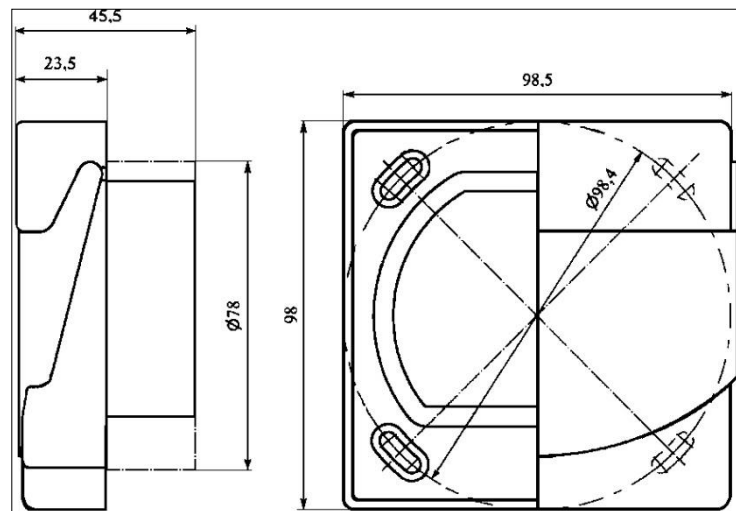


Figure 6.1.1 Dimensions and mounting holes of the call point

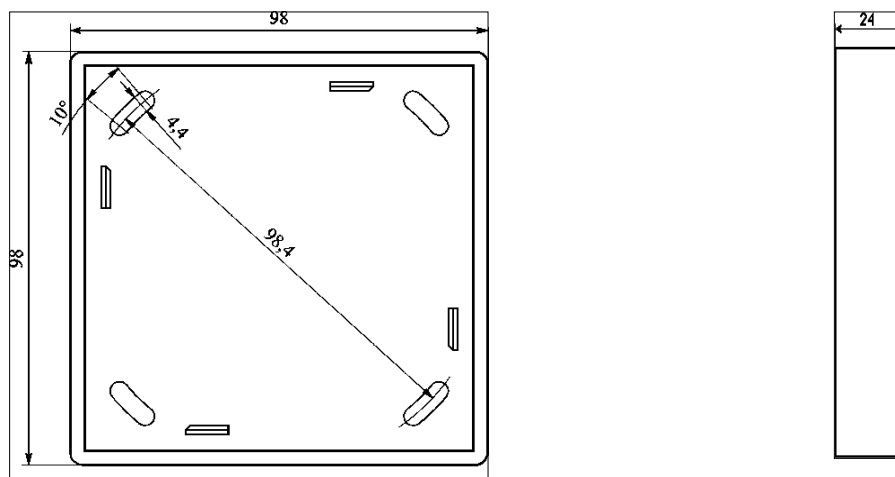


Figure 6.1.2 Dimensions and mounting holes of the RM-60-R masking frame

Due to the considerable impact force required for starting, drywall call points should not be installed without additional reinforcement.

6.2. Wire arrangement

The wires of the alarm system are laid in accordance with the regulations applicable to low-voltage installations (below 42 V) and connected to the terminals located on the control board.

In the case of call points installed outside buildings (hermetic), the alarm system wires should be inserted from below through cable glands.

To freely connect the call point, leave a reserve of installation cable (in the case of an installation coming from above) with the following length:

- approx. 40 cm for surface mounting;
- approx. 30 cm for flush-mounted installation.

6.3. Wire connection

The wires of the detection line are connected to the terminals „plus” and „minus”, separately for the input and output. In the case of shielded wires, the shields are connected together to a terminal on the board marked „E”. The method of making the connections is shown in the figureFigure 6.3.1. If the call point is the last element in the detection line, at the point of the output wire, it is connected to the terminals „+” and „-” Termination resistor. The value of the resistor is specified in the IMM of the control panel.

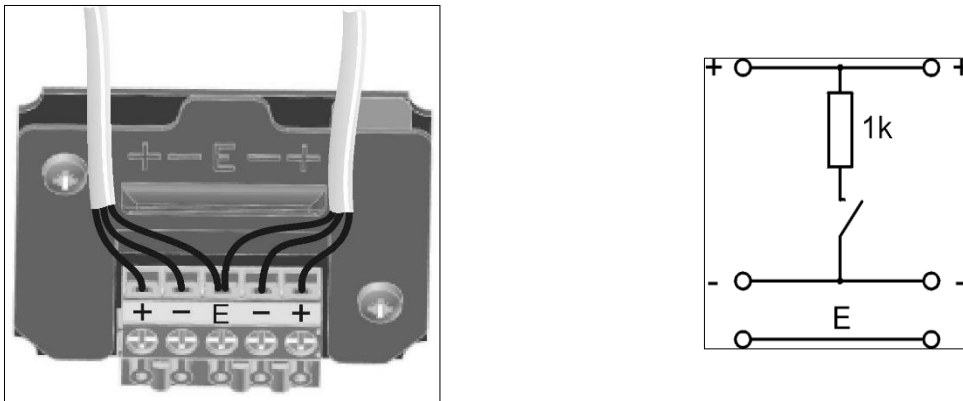


Figure 6.3.1 Manual call point detection line wiring diagram

To access the connector plate, press two wrenches (with flat tips) on the side, which will cause the body to tilt.

A clearance of at least 100 mm from walls or other equipment must be ensured on both sides and underneath the call point to ensure that keys are accessible.

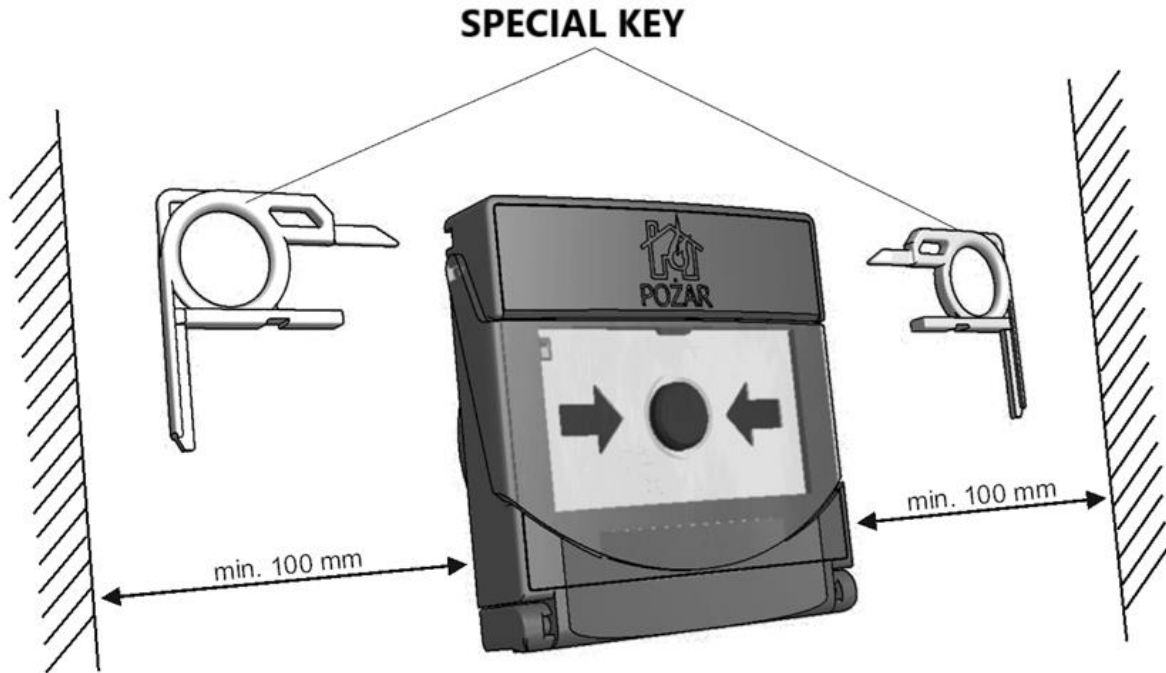


Figure 6.3.2 How to open the call point

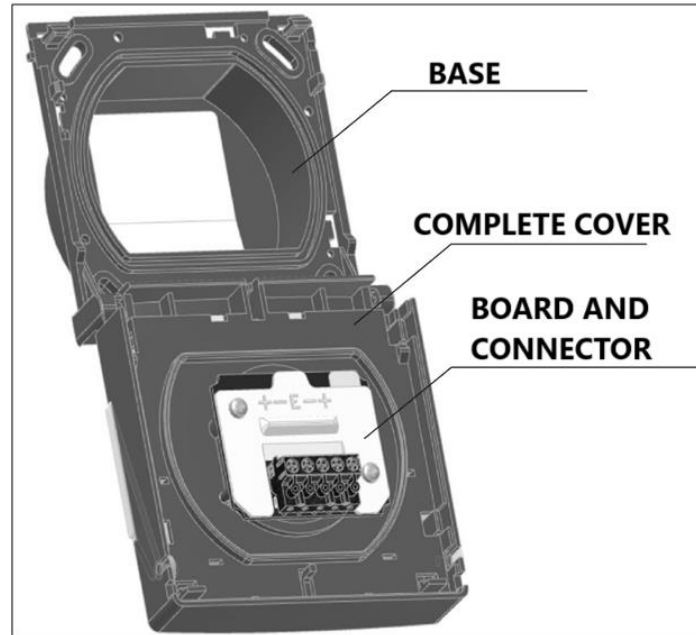


Figure 6.3.3 Manual call point when opened

6.4. Plastic cover replacement

If the glass needs to be replaced, the cover of the device must be tilted (see Figure 6..1 and Figure 6.), pull out the glass, remove the spring. Put the spring on the hinge of the new glass pane according to the drawing Figure 6.. Set of 3 pcs. of spare glass has the designation SZ-60.

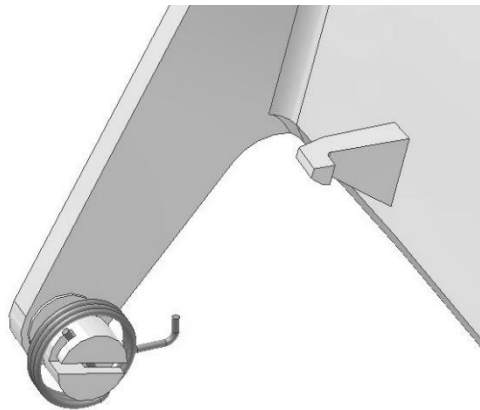


Figure 6.4.1 Glass cover spring mounting

Insert the glass into the guides of the cover and hook the spring onto the lug in the cover as shown Figure 6..

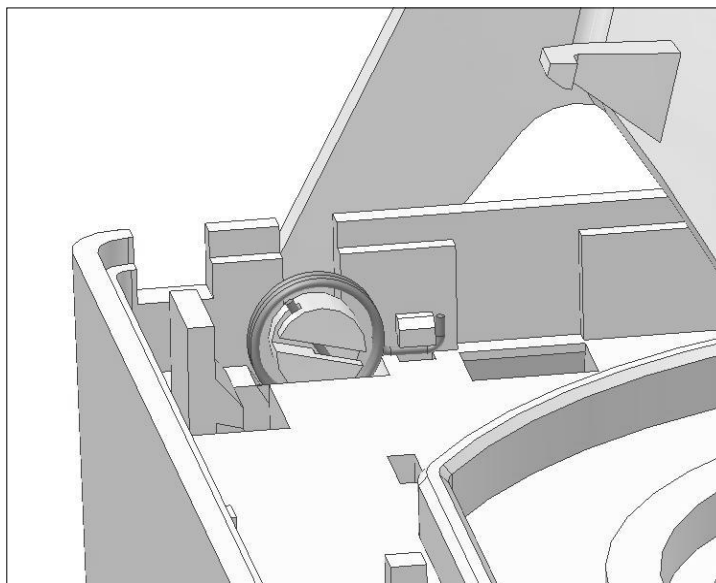


Figure 6.4.2 Glass to body assembly

7. OPERATION AND MAINTENANCE

Reliable operation of the call point depends on maintaining the appropriate operating conditions of the device, correct execution of the installation and regular periodic inspections. Periodically, the mechanical condition of the enclosure should be checked and kept clean.

Periodic examinations should be carried out at least once a year by a conservator or an authorized person. The test consists in triggering an alarm and checking whether the alarm is transmitted to the control panel. Efficiently operating call points, regularly subjected to periodic inspections, do not require other maintenance procedures.

8. STORAGE AND TRANSPORT

8.1. Storage

Warning devices should be stored indoors with a temperature of +5 °C to +40 °C and a relative humidity of 40 % to 80 %, free from vapours and corrosive gases, away from heating elements. The storage period should not exceed 24 months.

8.2. Transport

Warning devices are packed in collective packaging. The case contains installation and maintenance manual.

Devices in factory packaging must be transported in confined spaces by normal means of land or sea transport. The equipment should be protected against violent shocks and ambient temperatures below -40 °C and above +70 °C.



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