

# **ROP-63 & ROP-63H**

## **MANUAL CALL POINTS**

Installation and Maintenance Manual

IK-E328-001GB

IIA Issue




The ROP-63 and ROP-63H manual call points, covered by the present manual, complies with the requirements of the following European Union directives:

**CPD** 89/106/EWG on electric construction materials;  
**EMC** 2004/108/WE on electromagnetic compatibility.

The ROP-63 and ROP-63H manual call points have been approved with the Certificate of Conformity No. 1438/CPD/0091 issued by the Fire Protection Science and Research Centre (CNBOP) in Józefów, Poland, an EU notified authority No. 1438, that confirms their conformity with the requirements of the PN-EN 54-11:2004 standard.


The certificate may be downloaded from [www.polon-alfa.pl](http://www.polon-alfa.pl) web site.

The ROP-63 and ROP-63H call points have been approved by the CNBOP with the Allowance Certificate No. 0384/2008.

 <b>1438</b>
Polon-Alfa Spółka z ograniczoną odpowiedzialnością Sp. k. 155, Glinki Street, PL 85-861 Bydgoszcz, POLAND 07 1438/CPD/0091
EN 54-11 <b>ROP-63 &amp; ROP-63H manual call points</b> (conventional, B type) Application – fire safety
Technical data - IK- E328-001GB manual

Read the manual carefully before assembling and operation. Any nonconformity with the instructions contained in the manual may be harmful or may cause a violation of the law in force.

POLON-ALFA bears no responsibility for any damage resulting from any usage inconsistent with the manual.

The waste product, unsuitable for further use, shall be passed to a waste electric and electronic equipment collection point.	
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NOTE: The manufacturer reserves a right to change specifications of the products at any time without a prior notice.

## 1 PURPOSE

The ROP-63 and ROP-63H manual call points are designated for operation in conventional detection lines in order to transfer information about a noticed fire by their manual actuation.

The ROP-63 manual call point in the standard execution is intended for indoor installation.

The ROP-63H manual call point (with a higher ingress protection level) is intended for outdoor installation.

Both versions are suitable for semi-flush (in wall plaster) and surface (on wall plaster) mounting installation – the basic version is the first one, the semi-flush type. A special auxiliary RM-60-R masking frame is applied for surface mounting; it is not a part of the standard equipment and should be ordered separately.

## 2 TECHNICAL SPECIFICATIONS

Call point type	B, acc. to PN-EN 54-11:2004
Alarm resistor	1 k $\Omega$
Max. contact load capacity	0.1 A/30 V DC
Allowable cable wire diameter	0.8...1.2 mm
Ingress protection:	
ROP-63	IP 30
ROP-63H	IP 55
Operating temperature range:	
ROP-63	from -25°C to +55°C
ROP-63H	from -40°C to +70°C
Allowable 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:	
ROP-4001	< 220 g
ROP-4001H	< 260 g
Case colour	red

## 3 SAFETY CONDITIONS

### 3.1 Repairs and maintenance

Any maintenance works or periodic inspections shall be executed by a skilled personnel employed by companies authorised and trained by POLON-ALFA.

Any repairs must be carried out by the manufacturer. POLON-ALFA bears no responsibility for the operation of any apparatus being serviced and repaired by an unauthorised personnel.

### 3.2 Anti-dusting eye protection

It is obligatory to use protective anti-dusting glasses and masks during installation works that produce high amount of dust, such as hole drilling in walls

Any electric tools shall be used strictly obeying the safety rules stated in the manufacturer instruction manuals.

## 4 DESIGN DESCRIPTION

The manual call point consists of a body and a base connected with a hinge.

The manual call point body contains two main parts: a printed circuit board with a micro-switch and a connector to connect a detection line.

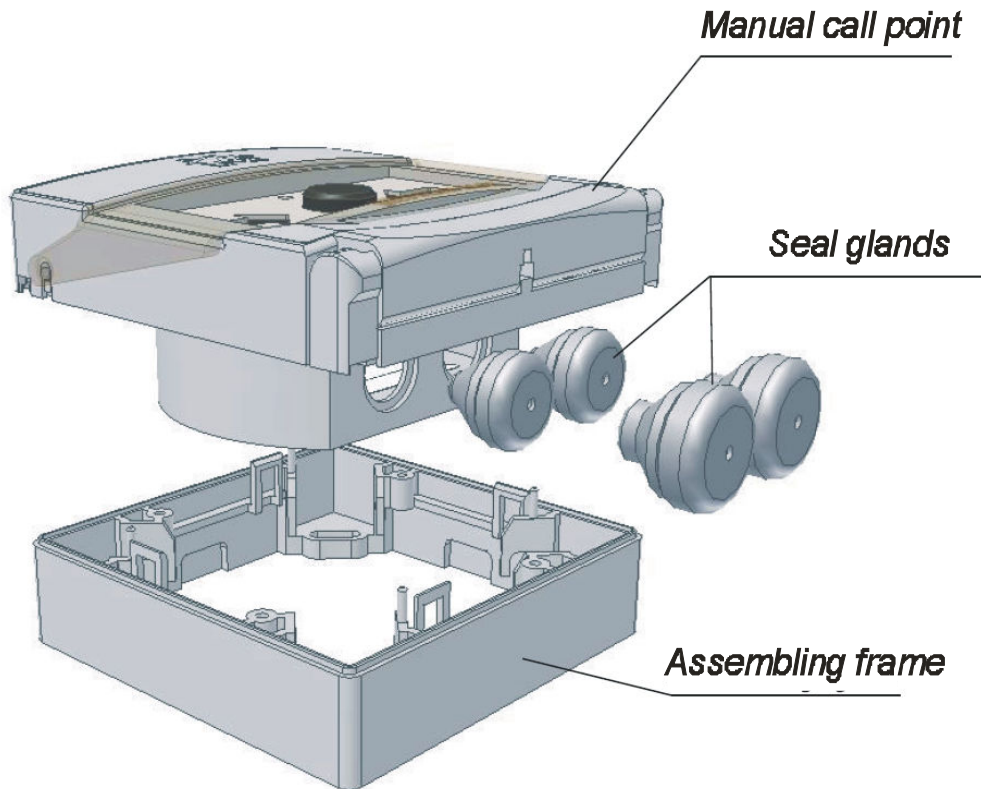


Fig. 1. Manual call point general view

In case of the manual call point surface mounting, the RM-60-R masking frame is applicable. For cable sealing, the FET 3-5 sealing glands are attached, applicable for cables of external diameter of 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

The manual call point actuation – initiation of an alarm – is carried out by hitting a plastic cover (which bends aside) and pressing a push button then.

The colour of arrows changes from black to yellow and the call point transmits information about the button pressing to the control panel.

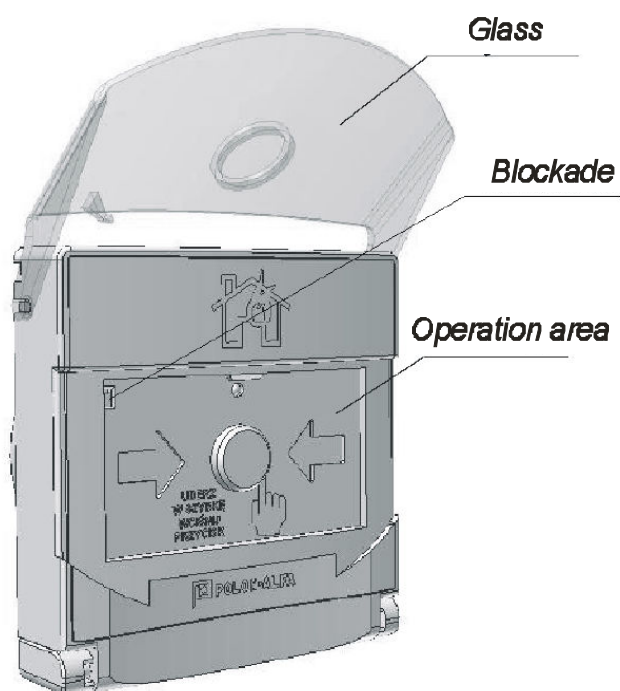


Fig. 2 Manual call point with cover bent aside

In order to reset the manual call point alarm mode it is necessary to press the cover down towards the body as shown in Fig. 3 and insert the key (T end) from the bottom until the arrows in the operation area change their colour from yellow to black. After the key removal, the cover is blocked again in its normal position.

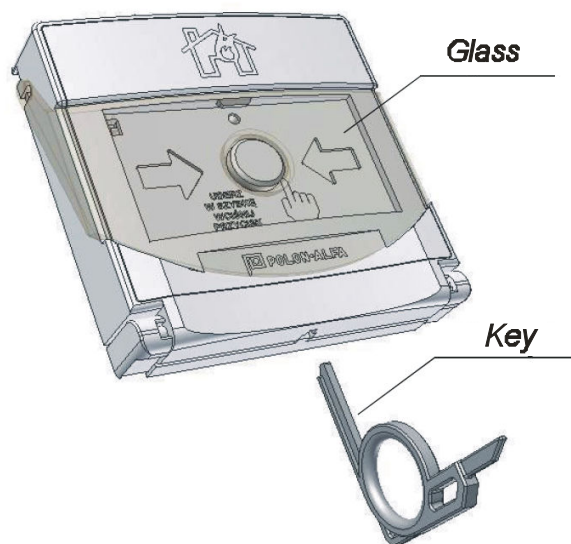


Fig. 3 Reset of alarm mode

**Note:**

If the cover is not hit but pulled aside (inconsistently with the instruction placed on the call point) and the push button is not pressed (the call point alarm mode is not actuated), it is necessary to press the cover

down towards the operation area and block it in this position, inserting the key from the bottom of the call point.

## 6 INSTALLATION

### Installation and mounting place

The call points, depending on their type, are designed to be installed either indoors or outdoors, in easily accessible visible places, preferably close to transport routes, 1,200 -1,600 mm above the floor in accordance with the PKN-CEN/TS 54-14:2006 standard p. 6.5.4 .

It is advised to determine the installation hole spacing (diagonally – see Fig. 4 and Fig. 5) utilizing a pattern, not the device itself or its masking frame.

The call point is fastened to a flat surface using two  $\varnothing 6$  anchor expansion bolts and cylindrical head screws that are delivered together with the call point.

In case of semi-flush mounting, a hole of 80 mm diameter (typical for electric installation box) and 22 mm depth should be drilled in the wall.

For the call point on surface fastening, the RM-60R masking frame is applicable.

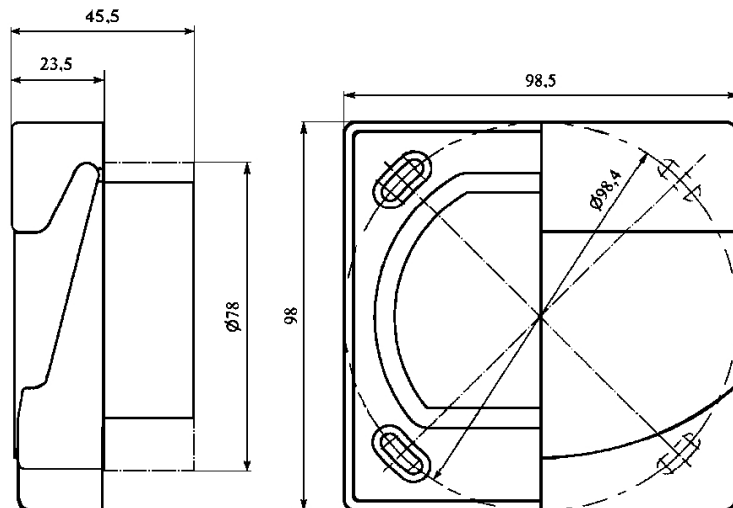


Fig. 4. Manual call point dimensions and fastening holes

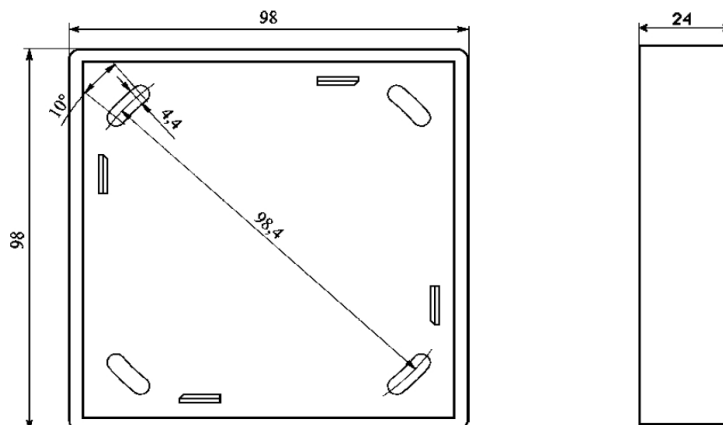


Fig. 5. Assembling frame dimensions and assembling holes

Since a considerable strength is needed to open the cover, it is advised to strengthen gypsum-carton boards on which the manual call point is mounted.

### Wire routing

Alarm installation wires shall be led in accordance with the low-voltage (below 42 V) installation obligatory rules and connected to the contacts placed on the printed board of the call point.

In case of manual call points installed outdoor (hermetic), the wires must be led from the bottom of call point trough seal glands.

For the manual call point easy connection some wire reserve shall be left of the length as follows:

- ca. 40 cm in case of surface mounting installation,
- ca. 30 cm in case of semi-flush installation.

### Wire connection

Detecting line wires are connected to “+” and “-” contacts, separately for an input and an output. In case of screened wires, the screens are joined together and connected to the contact on the board marked as “E”.

The way of connection settling is shown in the Fig. 6. If a manual call point is the last element in the detecting line, in place of the output cable an end-of-line resistor should be connected to “+” and “-” contacts. The value of the resistor is defined in the control panel technical documentation.

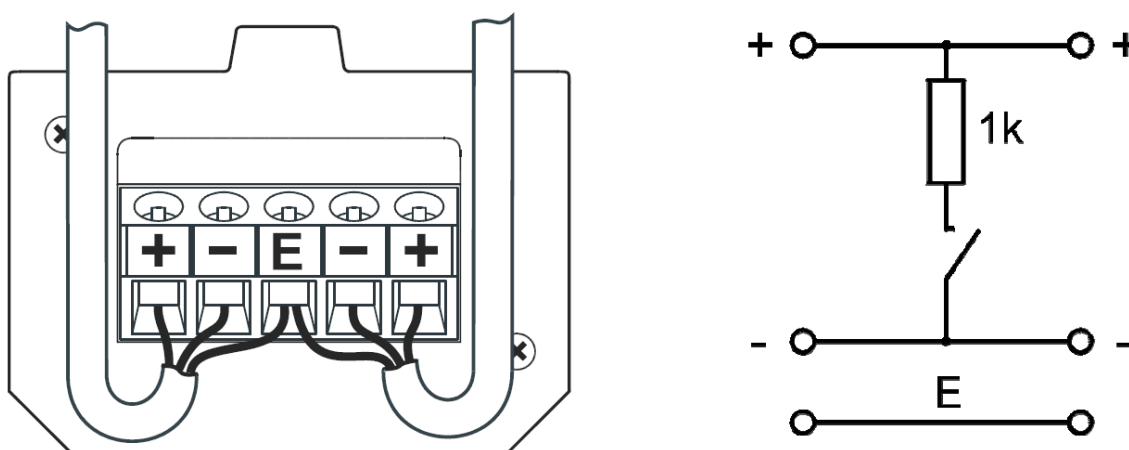


Fig. 6 Detecting line connection scheme

To access the printed circuit board where the connector is located it is necessary to push two keys (with flat ends) from the side what will bend the manual call point casing aside.

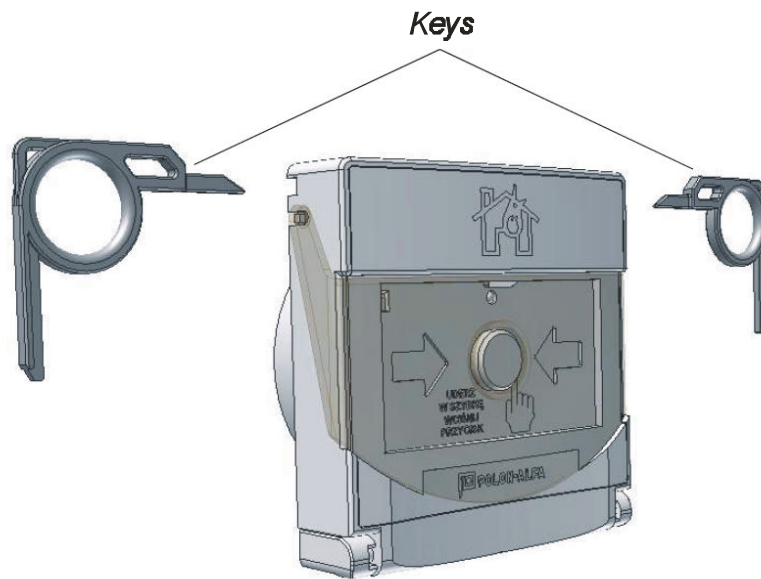


Fig. 7 Manual call point opening method

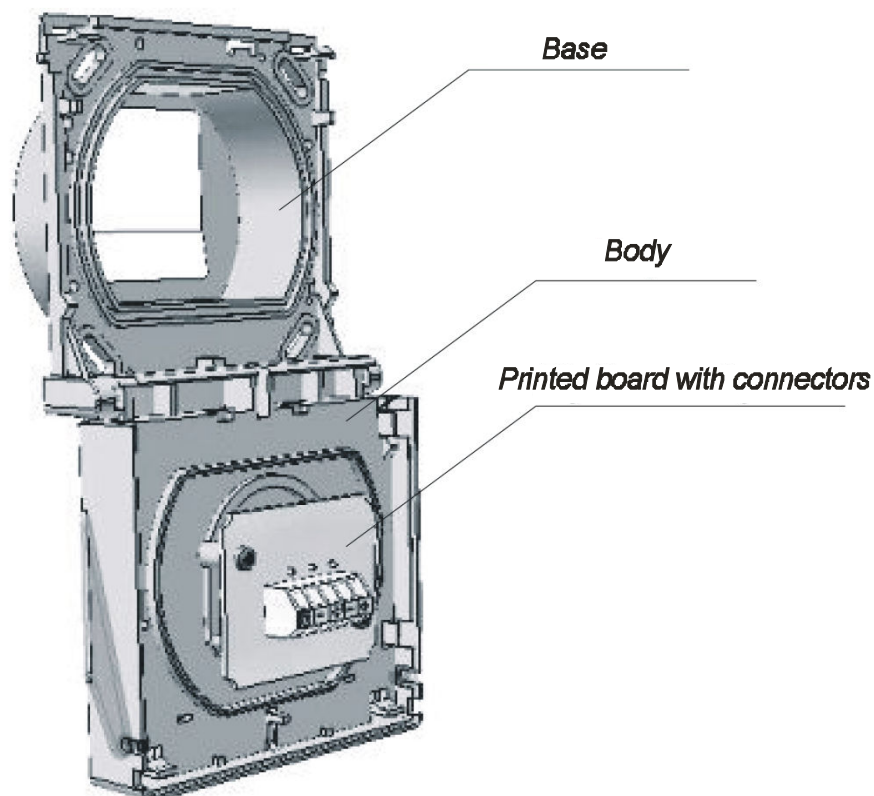


Fig. 8 Manual call point after opening

#### Plastic cover replacement

In case the cover replacement is needed, it is necessary to bend the casing aside (see Fig. 7 and Fig. 8), pull the cover out and take the spring out. Then the spring should be placed on a hinge of a new cover as it is shown in the Fig. 9.



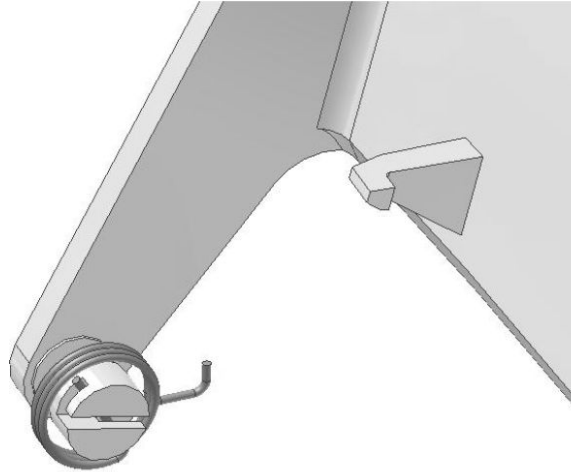


Fig. 9 Cover spring assembly

Then it is needed to insert the cover into the casing rails and hook the spring on a ledge in the call point casing (see Fig. 10).

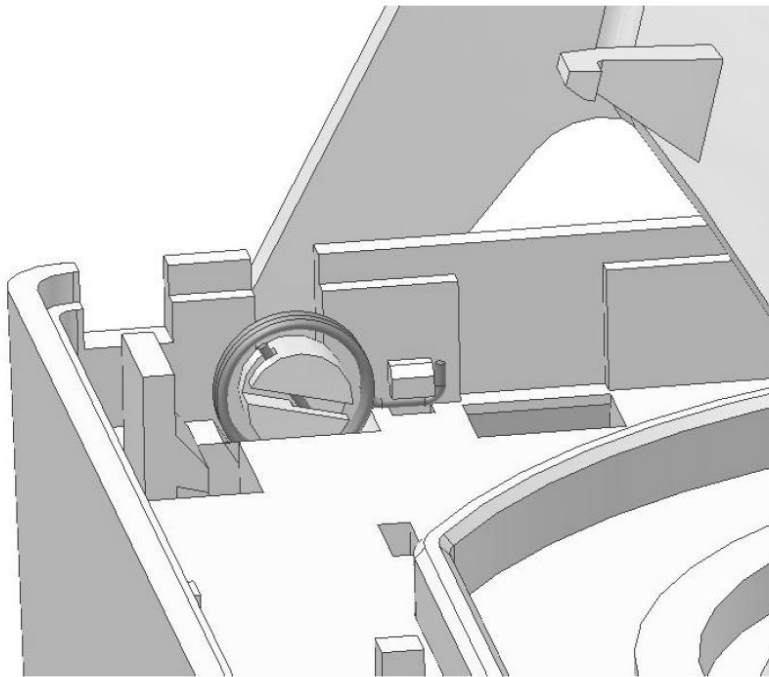


Fig. 10 Fastening of the cover to the casing

A set of 3 spare plastic covers is described as SZ-60.

## 7 SERVICE AND MAINTENANCE

The manual call point unfailing operation depends on ensuring proper operation conditions, appropriate assembly execution and systematic periodical inspections. From time to time the call point casing should be checked (mechanical condition) and cleaned.

The periodical inspections should be carried out at least once a year by a suitably trained technician or an authorized person. Such an inspection consists in the manual call point actuation and checking whether an alarm signal is passed to the control panel.

Properly operating call points, periodically inspected and tested do not require any additional maintenance.

## **8 STORAGE AND TRANSPORTATION**

### **Storage**

Manual call points should be stored in closed premises that are free of corrosive gases or vapours, at ambient temperature from +5 °C to +40 °C and relative humidity between 40% and 80% away from heating devices. The storage period should not exceed 24 months.

### **Transportation**

The manual call points are packed in bulk containers. An installation and maintenance manual is attached to the device.

The call points in a factory packaging can be carried in closed boxes in normal conditions with land or sea transport means. The devices should be secured from strong shakes and temperature drops below – 40 °C and increases above +70 °C .