8a : MANUAL FIRE ALARM CALL POINT





Testina

The alarm status can be simulated in the following way:

- Undo the two collar bolts with triangular heads, and remove the
- Undo the two sheet-metal screws that fasten the glass panel, and then remove the glass panel.

This method enables the testing of a manual fire alarm call point, without breaking the glass panel. The ROP-A type manual fire alarm call point is additionally equipped with a special spanner for collar bolts.

Purpose

The Manual Fire Alarm Call Point is a type A call point with direct activation. In terms of its electric system, it can be categorised as a reqular switch with passive electrical components that operate in an alarm condition circuit

In the version with a signaling system, the breaking of a glass panel activates LED, which signifies alarm condition. The connection unit contains two contacts; one NC (Y) and one NO (X), or two NC contacts (Y). The Y (NC) contact is open in the detection status, and closed in the alarm status. The X (NO) contact operates the other way round. External conductors are connected to a 4-way/6-way threaded tube

The product is in accordance with the Regulation (EU) No 305/2011 of the European Parliament and of the council of 9 March 2011 laving down harmonized conditions for the marketing of construction products and repealing Council Directive 89/106/EWG

Activating and cancelling

The activating of the ROP-AM type manual fire alarm call point is done with a small hammer, which is an integral part of this fire alarm call point. The activating of the ROP-AD type manual fire alarm call point is done with any hard object that is capable of breaking the glass.

Cancelling is possible, when the damaged (broken) glass panel has been replaced with a new one.

Carry out the following to replace the glass panel:

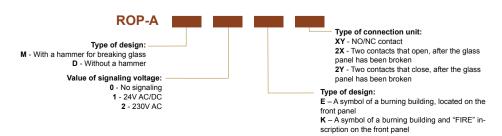
- Undo the two collar bolts with triangular heads, and remove the front panel.
- Undo the two sheet-metal screws that fasten the glass panel,
- Remove glass residues and install a new glass panel.

8a.1 : TECHNICAL DATA

Insulation rated voltage (U _i)	500 V	
Rated switching currents (I _e)	AC15 U _e 230V/400V 6A/4A DC13 U _e 24V/110V/220V 4A/1A/0,25A	
Signaling rated voltage (U _s)	24V AC, DC 230V AC	
Maximum effective resistance of contacts	10 mΩ	
Cross-section of the connected external conductors	0,28 1,5 mm²	
Protection class	IP 54	
Range of working temperatures	-25°C to +70°C	
Weight of ROP-A M	315 g	

The product conforms to the following standards PN-EN 54-11

8a.2 > TYPES OF MANUAL FIRE ALARM CALL POINTS



8b : PD SMOKE VENT BUTTONS



Testina

The alarm status can be simulated in the following way:

- Undo the two collar bolts with triangular heads, and remove the front panel.
- Undo the two sheet-metal screws that fasten the glass panel, and then remove the glass panel.

Removal of the glass panel, as well as its breaking make the button work. The above mentioned method enables the testing of II PD without breaking the glass panel. II PD type vent button is equipped with "RESET" function accessible with glass installed and removed front panel. RESET button enables to delate alarm status when be-

Purpose

Manual smoke vent button II PD is destined for working as par Smoke Extraction Systems (control of smoke vents) with local 3-L

Additionally, II PD type vent button is equipped with "RESET" function as well as with terminal for series and terminating resistors.

NBOP

Pressing the button makes the LEDs emit continuous light and indicate the following: detection (green), failure (yellow), and activation (red). The button is equipped with passive electronic components. The product is in accordance with the Regulation (EU) No 305/2011 of the European Parliament and of the council of 9 March 2011 laying down harmonized conditions for the marketing of construction products and repealing Council Directive 89/106/EWG.

Certified by CNBOP-PIB no AT-0402-0327/2011, issuance 2, Certificate of Approval no. 1227/2012. Certificate of Conformity no. 2804/2012

Activating and cancelling

The activating of the II PD vent button is done directly upon breaking the glass panel.

Cancelling is possible, when the damaged (broken) glass panel has been replaced with a new one and RESET button has been activated. Carry out the following to replace the glass panel:

- Undo the two collar bolts with triangular heads, and remove the front
- Undo the two sheet-metal screws that fasten the glass panel.
- Remove glass residues and install a new glass panel

8b.1 : TECHNICAL DATA

Insulation rated voltage (U _i)		500 V
Rated switching currents (I _e)	AC15 U _e 230V/400V DC13 U _e 24V/110V/220V	6A/4A 4A/1A/0,25A
Signaling rated voltage (U _s)		24V DC
Maximum effective resistance of contacts		10 mΩ
Cross-section of the connected external conductors		0,28 1,5 mm²
Protection class	IP 54	
Range of working temperatures		-25°C to +70°C

8b.2 TYPES OF PD SMOKE VENT BUTTONS

XY P V2

Type of design: M - With a hammer for breaking glass

D - Without a hammer

www.sn-promet.pl | 191

190

8c > PB LOCK BUTTONS





Purpose

The lock buttons with a glass panel are intended for industrial halls and public utility buildings. They can also be used outside, under a cover, so as to ensure they are protected from the direct impact of rain and snow.

In terms of the electric system, they can be categorised as regular switches with passive electrical components that operate in an alarm condition circuit.

Lock buttons have been designed in 5 colour versions: yellow, green, red, orange and grey. The product conforms to the standard PN-EN 60947-5-1.

Testing

The alarm status can be simulated in the following way:

- Undo the two collar bolts with triangular heads, and remove th front panel,
- Undo the two sheet-metal screws that fasten the glass panel, and then remove the glass panel.

Removal of the glass panel, as well as its breaking make the button work. The above mentioned method enables the testing of PB buttons without breaking the glass panel.

Activating and cancelling

The activating of the PB-M type button is done with a small hammer, which is an integral part of this lock button.

The activating of the PB-D type button is done with any hard object that is capable of breaking the glass. Cancelling is possible, when the damaged (broken) glass panel has been replaced with a new one. Carry out the following to replace the glass panel:

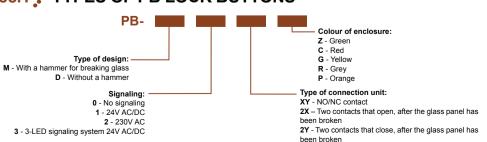
- Undo the two collar bolts with triangular heads, and remove the front panel,
- Undo the two sheet-metal screws that fasten the glass panel,
- Remove glass residues and install a new glass panel.

8c.1 TECHNICAL DATA

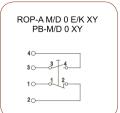
	, and the second		PB -M/D 0/1/2 3X3Y	
Insulation rated voltage (U _i)		500 V	250 V	
Rated switching currents (I _e)	AC15 U _e 230V/400V DC13 U _e 24V/110V/220V	6A/4A 4A/1A/0,25A	AC15 U _e 230V 2,5A DC13 U _e 220V 0,3A	
Signaling rated voltage (U _s)		24V DC		
Maximum effective resistance of contacts		10 mΩ		
Cross-section of the connected external conductors		0,28 1,5 mm²		
Protection class	IP 54			
Range of working temperatures		-25°C +70°C		

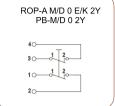
The product conforms to the standard PN-EN 60947-5-1

8c.1 TYPES OF PB LOCK BUTTONS

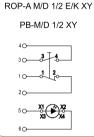


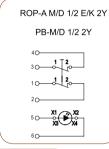
CIRCUIT DIAGRAMS

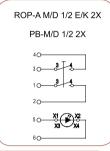


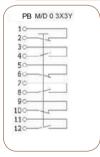


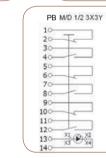


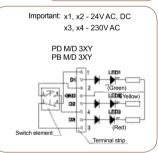


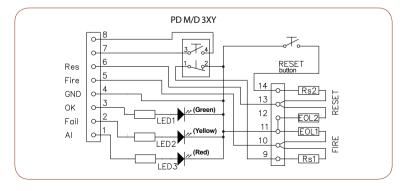




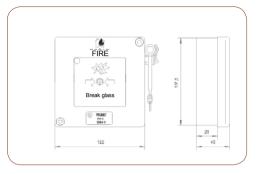








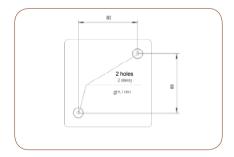
> OVERALL DIMENSIONS



ASSEMBLY

"Break glass" type buttons can be either flush-mounted or surface-mounted.

The rear side of the enclosure for a "break glass" type button contains two hole plugs (under screw shields), intended for 4.1 mm assembly openings. The two hole plugs must be forced open. When installed, cover the screws with shields.



SPARE PARTS

SN PROMET offers the following products:

- A complete set of glass panels
- A hammer with a chain
- A spanner with a pin (for service purposes).

8d SPD OPTICAL SMOKE DETECTORS



PURPOSE

SPD type optical point smoke detectors are intended for detecting visible smoke that accompanies fire in closed rooms, in various types of buildings and structures, and transferring this signal to a cooperating fire alarm control panel. The detector has been designed for an uninterrupted 24-hour operation. The SPD-3-1M detector has been designed to work with fire alarm control panels or fire/burglary control panels, us-

ing a two-conductor direct current detection circuit that operates under the rated supply voltage of 12/24V.

The SPD-3.2 detector has been designed to work with fire alarm control panels or fire/burglary control panels, using a 4-conductor direct current detection circuit that operates under the rated supply voltage of 12V.

DESIGN AND PRINCIPLE OF OPERATION

The detector operates according to the principle of controlling the optical density in the surrounding. The detector is comprised of a proper detector and a socket. The detector is connected to the socket with a 4-contact connector. The plastic enclosure for the connector contains an optical system and an electronic block that processes signals and controls status signals.

When there is no smoke in the optical system's detection area, the detector connected to a fire alarm control panel will remain in the stand-by mode. This mode is indicated by red flashing of the optical signalling device. When smoke is detected in the optical system's detection area, the electronic systems generates a "FIRE" signal, in the form of a sud-

den change of internal resistance, which is translated into an increase of current in the detection circuit. In the FIRE mode, the red optical signalling device emits continuous light. When power has been disconnected for at least 3s and then reconnected, detectors return to the stand-by mode (Reset). Place a protective cap on the detector's body, in order to protect the optical system of the detector against dirt, during transport and assembly work. When installing or removing detectors, follow the rules related to working at heights.

ARRANGEMENT AND ASSEMBLY

When arranging detectors, select locations that ensure the following:

- Minimum vibrations of building structures;
- Minimum lighting;
- Maximum distance to sources of electromagnetic interferences (wiring system, etc.), infrared radiations (thermal devices);
- No possibility of water falling on the detector's body or leaking from the rosette's side;
- No gases, vapours, or aerosols that can cause corrosion.

Detectors are connected to the detection circuit, using sockets. The sockets are mounted in the same locations where detectors were installed, using two Ø6x25mm wall bolts and two Ø3x30mm self-tapping screws. The distance between centres of holes should be 70±0.2 mm.

8d.1 > TECHNICAL DATA

Sensitivity	0,05-0,2 dB/m	
Inertia	10 s≤	
Range of supply voltage	10-30 V	
Method of forming an output signal	contactless	
Method of connecting a fire alarm control panel	conductor signaling line	
Detection current	0,095 mA	
Alarm current	6-30 mA	
Internal resistance in the alarm condition (under current input of 20mA)	500 Ω	
Overall dimensions	Ø100x48 mm	
Weight	0,15 kg	
Range of working temperatures	-30 to +55 C ^o	
Average lifetime approx.	10 years	

|194| www.sn-promet.pl |195