PROTECTWELL

M600K
Intelligent Manual Call Point

Description

M600K intelligent manual call point is designed to provide a manual interface for raising an alarm on the fire alarm system.

It has an integral fire LED status indicator. The fire LED blinks in normal monitoring state. Press the black dot on the operation panel to make it move, and the yellow mark on the lower edge of the operation panel should be visible. Internal electronics immediately notify the control panel of the activation alarm signal to the fire alarm system. At the same time, the integral fire LED will be steady red - in alarm.
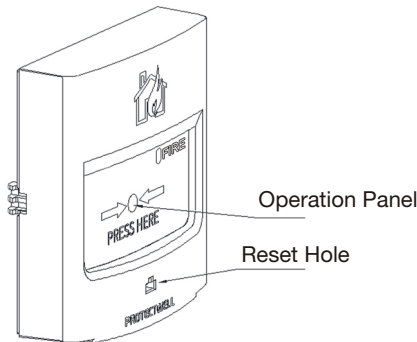

Figure 1: M600K Intelligent Manual Call Point

Specifications

Rated Voltage: DC24V.

Standby Current: 380µA@DC24V.

Alarm Current: 1.5mA@DC24V.

Operating Temperature: -10ºC ~ 55ºC.

Operating Humidity: 5% ~ 95%RH Non-condensing.

Dimension: 90mm×86mm×37mm (Including base).

Weight: 65g.

Software Version: A.

Carried Standard: GB 19880-2005.

Addressing

M600K intelligent manual call point is an addressable monitored module, each module in the loop must be uniquely addressed, its address is set by address coder/decoder handhold programmer CP600M, address range: 1~230. Please refer to the CP600M instructions for specific operations.

Terminal Description

M600K intelligent manual call point is used with K600 terminal base for M600K, and its wiring terminals are defined as follows:

1	Terminal	3	Communication	5	No	7	No
2	Terminal	4	Communication	6	No	8	No

Power Supply and Wiring

Power supply instruction

The design of the system is determined by calculated number of modules allowed in the loop according to the load capacity of the controller or power supply, ensuring that the sum of the current consumed by all devices in the loop does not exceed the load capacity of the controller or power supply. In the loop calculation, it is necessary to consider the voltage drop caused by the resistance of the line.

Resistance of general wiring sizes

1.0 mm² 19.5Ω/1000m

1.5 mm² 13.3Ω/1000m

2.5 mm² 7.98Ω/1000m

For example, if there are 10 devices in a certain area and each device needs 10mA, connect them with 1.5mm ² lines of 2000m (total line length = line length in operation + line length returned), and the current at the end of the line is 10mA, then: Number of devices x terminal current x (total length of lines x wire resistivity) = voltage drop, 10 x 10 mA x (2000m x 13.3 ohms /1000m) $\approx$ 2.7V
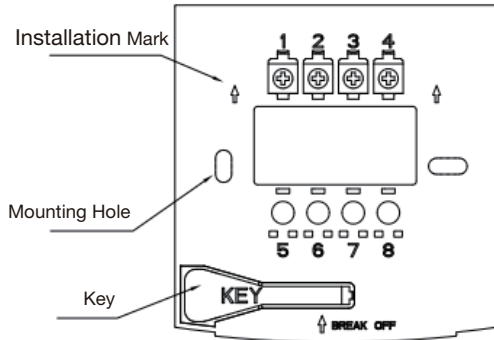

Figure 2: K600 Terminal Base for M600K

Wiring

M600K intelligent manual call point is used with K600 terminal base for M600K, wiring as shown in Figure 3.

The communication line of this manual call point adopts non-polarity wiring design, and does not distinguish positive and negative poles.

Communication Line — To next device

Figure 3: Wiring Diagram

Mounting

Install the base at the predetermined installation position according to the direction indicated by the installation mark (Figure 2) on the K600 terminal base for M600K.

Disconnect the power supply of the loop and wire according to the wiring diagram (Figure 3).

Use the address coder/decoder handhold programmer CP600M to address the manual call point.

Align the hook on the manual call point with that on the K600 terminal base for M600K, press into the mounting base (Figure 4), and the installation is complete.

Hook

Figure 4: Mounting

Functions And Testing

Testing

Intelligent Manual call point must be tested after installation and after each regular maintenance.

NOTE: Before the test, please inform the relevant management department to disconnect the logic control function of the system in the maintenance area to avoid unnecessary alarm linkage. During manual maintenance, the system will temporarily stop working.

Press the black dot on the operation panel to make it move, and the yellow mark on the lower edge of the operation panel should be visible (as shown in Figure 5). The system should receive the alarm information reported from manual call point, and the state of the fire LED should be steady red.

Reset

Remove the key from the base (Figure 2) , then as shown in Figure 5, insert the key into the reset hole (Figure 1) with moderate force. The operation panel will pops up. After the controller is reset, the fire alarm indicator blinks normal and the reset succeeds.

Yellow Mark

Key

Figure 5: Reset

Remove

As shown in Figure 6, insert the straight screwdriver into the removal hole and pry the K600 base with moderate force in the direction of the arrow until the latch is released. Repeat this operation on the opposite side to remove the manual call point.

Ordering Information

M600K: Intelligent Manual Call Point.
M600K/C*: Intelligent Manual Call Point.
(CLIP model for legacy system).
K600: Terminal Base for M600K.
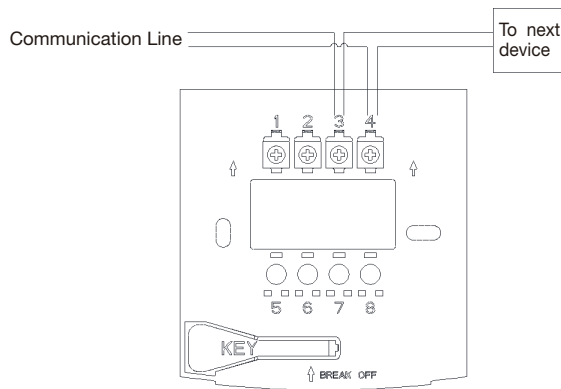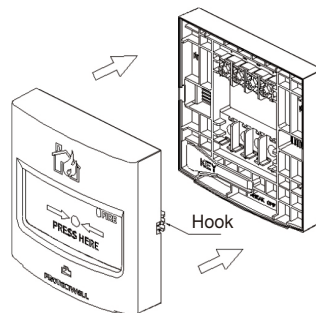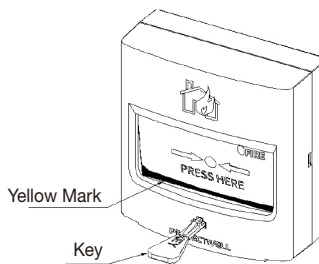*NOTE: "/C" is ordering suffix and will not show on product label.*

Figure 6: Remove

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