QM-MA-01E Manual/Automatic Control Switching Unit Instruction

I. Introduction

The QM-MA-01E manual/automatic control switching unit serves the main role of generating the manual/automatic control signals for the gas fire-extinguishing controller, while indicating fire alarm and gas release. The manual/automatic control switching unit is installed at the exit of a site with a gas fire-extinguishing system, using a key for switching over of manual/automatic control.



II. Technical specification

1. Operating condition: Temperature -10 ℃ ～ +55 ℃
   Humidity ≤ 95% (40 ℃ ± 2 ℃, without condensation)
2. Operating voltage: 24V DC
3. Operating current: < 50mA
4. Contact current: < 2A / 24V

III. Instructions for use

1. QM-MA-01E manual/automatic control switching unit installation dimension: (see Figure 1)
2. Internal electrical diagram: (see Figure 2)

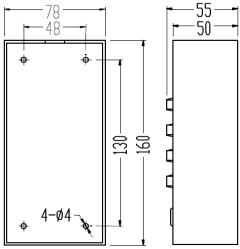


Figure 1

3. Terminals:

Terminal No.	Instructions for wiring	Remark
1	Controller 24V+	
2	Controller 24V-	
3	Controller manual/automatic switching input	Normally open contact (2A / 24V)
4	Controller manual/automatic switching input	
5	Controller fire alarm indication	
6	Controller gas release indication	

Note: Terminal 3 and Terminal 4 are open when using the key to switch to manual control, and closed when switching to automatic control.

4. Wiring:
   For the wiring to connect up the JB-QB-QM200 or JB-QB-QM200/4 gas fire-extinguishing controller, please refer to the appropriate controller manual.

IV. Precautions for installation and use

1. The power cord is a BV cable not less than 1.5mm^2, and the other cables the RVS twisted-pair cable not less than 1.0mm^2.
2. If possible, the manual/automatic control switching unit should not be installed in an environment where condensation, high heat, oil contamination, and/or chemical corrosion may occur.
3. The power must be cut off when wiring, and can be turned on after the wiring is confirmed correct.
4. Please keep the key for switching over of manual/automatic control.
5. Engineering, installation and adjustment should be carried out under professionals' guidance. The wiring must be confirmed correct before the power is turned on.

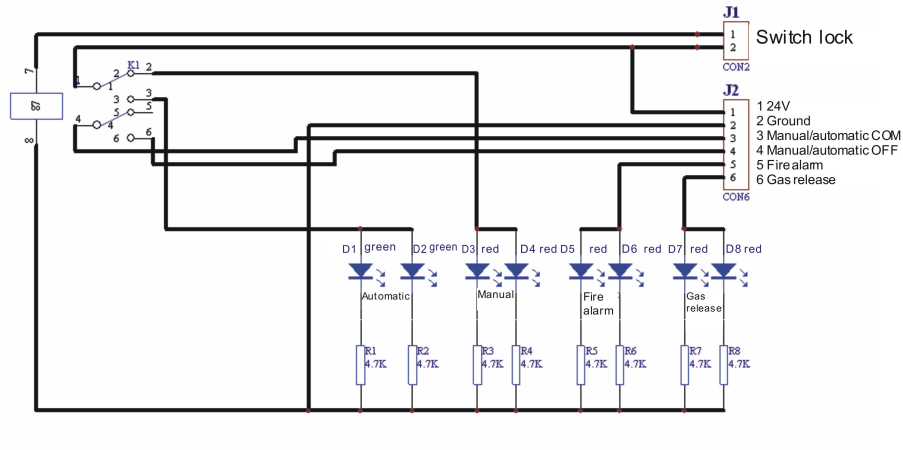


Figure 2