K3200

Multi Zone Fire Alarm Repeaters

Operation and Maintenance Manual

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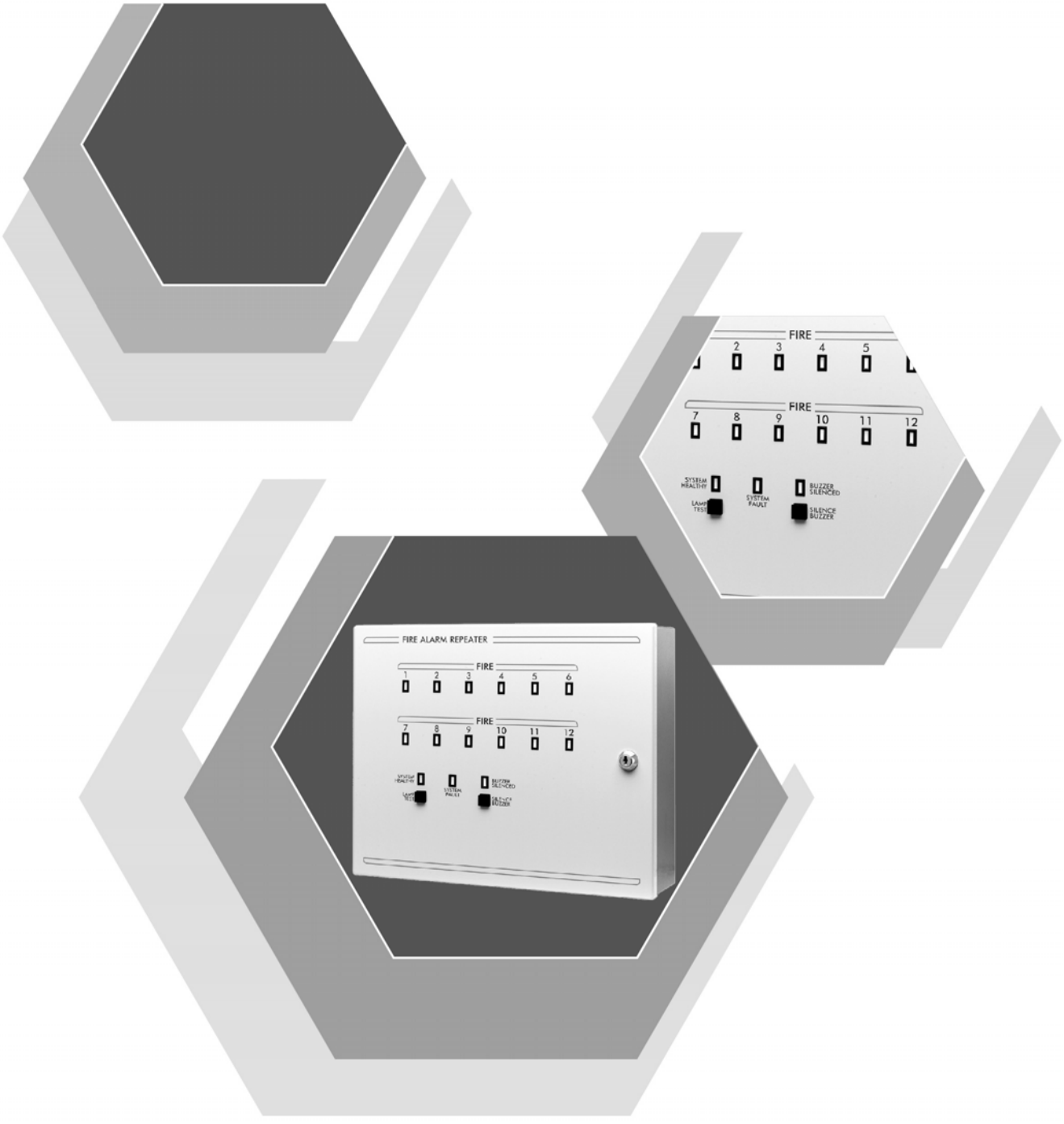

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1. Installation

1.1 Safety

IMPORTANT - READ THIS SECTION FIRST!

Suppliers of articles for use at work are required under section 6 of the Health and Safety at Work Act 1974 to ensure as reasonably as is practical that the article will be safe and without risk to health when properly used. An article is not regarded as properly used if it is used "without regard to any relevant information or advice" relating to its use made available by the supplier.

This product should be installed, commissioned and maintained by or under the supervision of competent persons according to good engineering practice and:-

i) IEE regulations for the electrical equipment of buildings.
ii) Codes of practice.
iii) Statutory requirements.
iv) Any instructions specifically advised by the manufacturer.

According to the provisions of the act you are therefore requested to take such steps as are necessary to ensure that any appropriate information about this product is made available by you to anyone concerned with its use.

This equipment is designed to be operated from 220-240V AC mains supplies and is of class I construction. As such it must be connected to a protective earthing conductor in the fixed wiring of the installation.

Failure to ensure that all conductive accessible parts of this equipment are adequately bonded to the protective earth will render the equipment unsafe.

2. General Operation

K3200 repeater panels are designed to provide secondary indication of the fire alarm or system fault condition at a location remote from the main control panel.

This is achieved by the use of LED indicators and an internal buzzer.

The repeater panel includes a switch for illuminating all of the LED's for testing purposes and a switch to silence the internal buzzer.

Operation of the silence switch with a fire or fault condition active will illuminate the silenced indicator. Subsequent fire conditions will cause the silenced indicator to extinguish and the internal buzzer to resound.

Under normal circumstances only the green system healthy indicator will be illuminated to show that the repeater is powered.

2.1 Power & Polarity

The repeater panel is powered by the main panel to which it is connected.

Power should be taken from the AUX 24V output at the main panel. This output is separately fused ensuring that a fault on the repeater wiring will not affect the operation of the main panel.

The repeater panel requires a common positive and switched negative signals. It will not work with common negative and switched positive signalling.

2.2 Power Consumption

Under normal circumstances the repeater will consume 30 mA maximum at 28V DC. This will rise to 10OmA maximum for the first fire or fault condition annunciated plus 3OmA maximum for each and every subsequent indicator illuminated.

Pressing the buzzer silence switch will reduce the current consumption by 5OmA maximum when in alarm condition.

3. Cabling

Due to the low power consumption, the cable need not need to be sized to reduce volt drop, however to ensure successful rupturing of the AUX 24V fuse at the main panel in the event of a cable fault, a maximum resistance of 12.5 OHMS per core is recommended.

3.1 Maintenance

Regular maintenance should include checking the operation of all indicators by using the lamp test facility and checking that the correct indication is given during weekly rotational fire alarm system tests.

No other specific maintenance is necessary.

Diagram below shows connection for Repeaters from 4 zones to 12 zones inclusive.

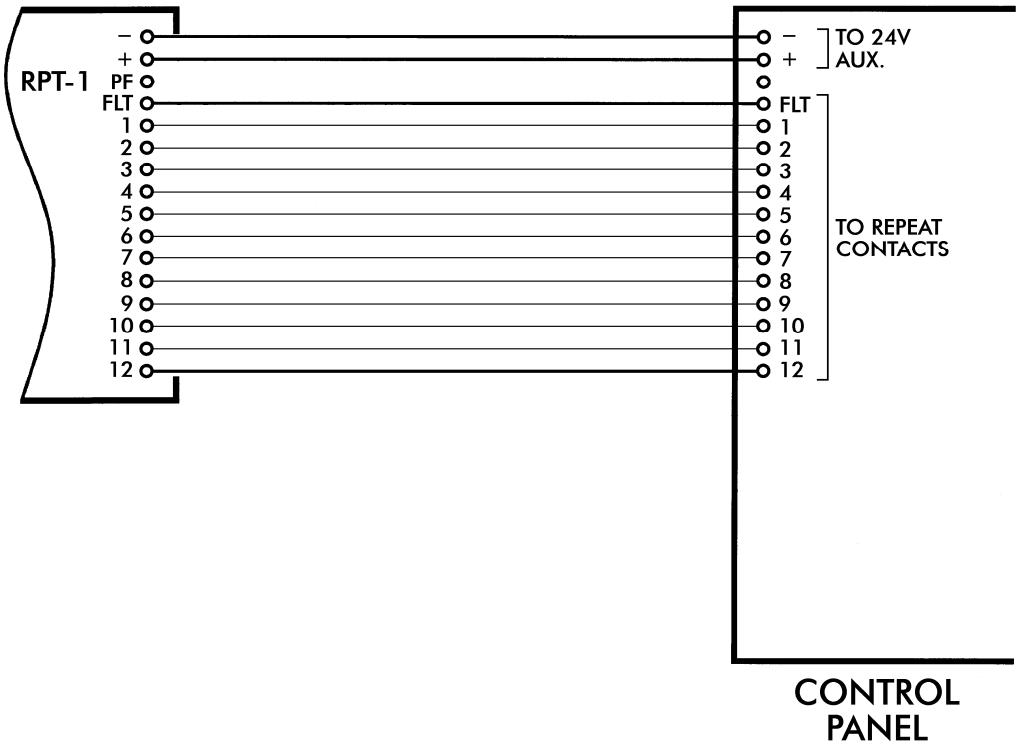
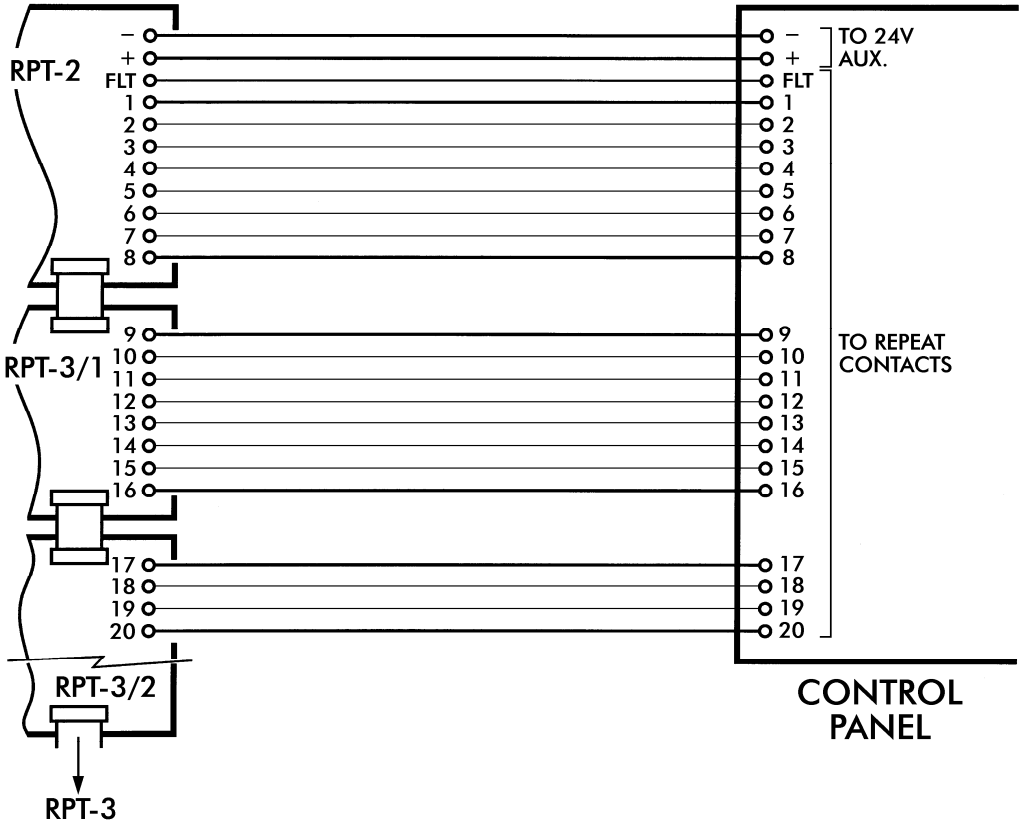
Diagram below shows connection for Repeaters from 16 zones to 48 zones inclusive.