

APPLICATION NOTE

Document Title CHQ-CP Single Input Monitor

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SINGLE INPUT MONITOR (CHQ-CP/OEM)

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FUNCTION

The CHQ-CP is a loop powered single input monitor unit designed to be used as a call point module for special applications such as addressable key-switches and explosion proof call points. The default device type allocated by the Fire Alarm Control Panel will be a call point.



As shown below, the unit consists of a single PCB and several flying leads, which should be connected as described in the Wiring Diagram below.

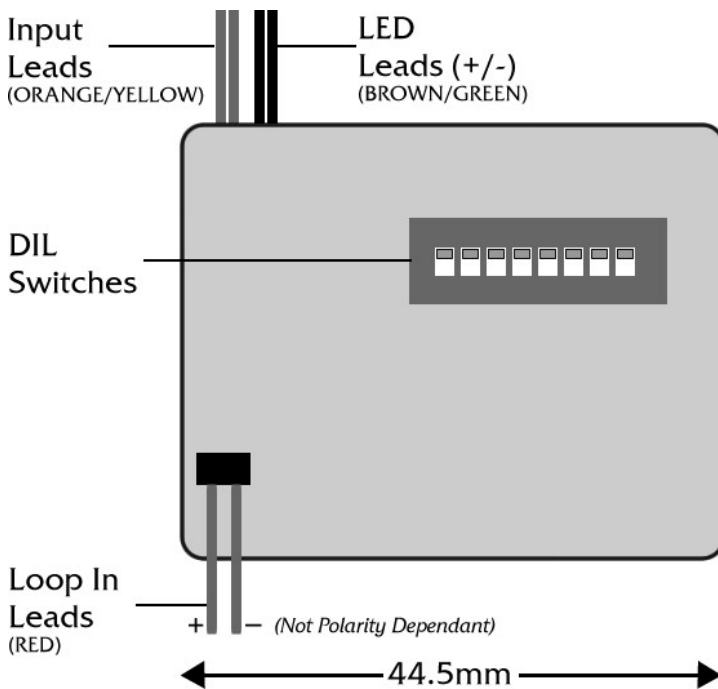


FIG 1



FIG 2

INSTALLATION

NOTE : The unit consists of a PCB (Printed Circuit Board), which requires mounting in an appropriate box, for "field usage" in order to comply with the European "CE" directive.

If required, a red LED can be fitted as shown in FIG 3 (over). If connected the red LED flashes each time the unit is polled by the fire alarm control panel, and is continuously illuminated under control panel instruction when the input is activated and latched until the unit is reset.

WIRING DIAGRAM

NOTE: The red loop wires are non-polarised and can be connected either way round.

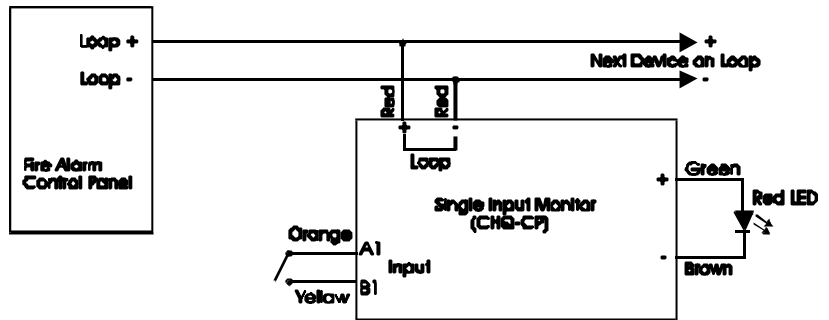


FIG 3

HARDWARE SPECIFICATION

Features	<ul style="list-style-type: none"> - Single un-monitored input - Non-polarised loop connections - Sleep mode for low power consumption - Monitor LED (<i>when fitted</i>) - flashes when unit is polled, continuously illuminated in alarm. 	
Supply voltage	Loop voltage (low)	17 - 31V
Current consumption (loop)	Quiescent	230 μ A(typ)
	Sleep mode, 0.75s polling	85 μ A(typ)
	Loop current (when polled)	22mA \pm 20%
	Loop current (alarm) - LED on	4.1mA
ON threshold level	< 50 Ω	
OFF threshold level	> 100k Ω	
Operating temperature range	-10 $^{\circ}$ C - +50 $^{\circ}$ C	
Storage temperature range	-30 $^{\circ}$ C - +60 $^{\circ}$ C (<80% RH at 60 $^{\circ}$ C)	
Relative humidity	95% RH at 40 $^{\circ}$ C non-condensing *	
Dimensions	44.5mm x 36.5mm	
Weight	15g (not including casing)	

*Only applies when module is suitably housed.



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