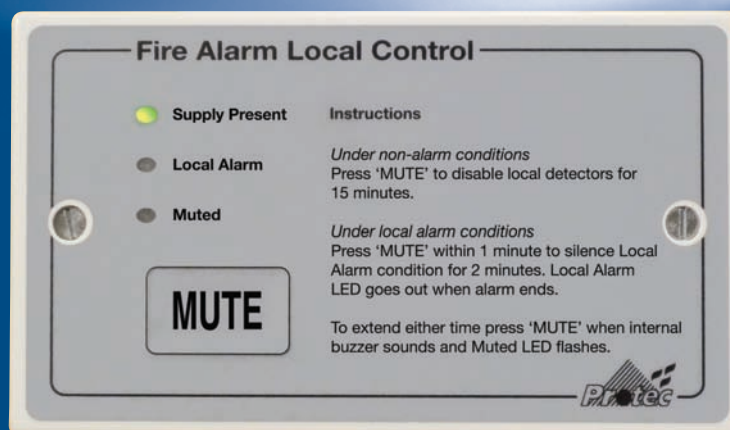


- Loop Powered Single Zone Fire Alarm
- Reduced Incidence of False Alarms in Houses in Multiple Occupation
- Local 'Mute' facility to Silence Unwanted Alarms
- Local 'Disable' Facility to Isolate Local Detectors and Sounders
- Simple One Button Operation
- Fully Monitored
- Low Current
- Integral Short Circuit Isolator
- Protec Algo-Tec™ 6000 Protocol
- Designed to Meet Relevant Sections of BS5839 Part 6



The Protec Algo-Tec™ 6000 Local Control Module has been designed to allow easy integration of Protec Addressable Fire Detection systems into Houses in Multiple Occupancy and offers novel features to reduce false and nuisance alarms.

The unit effectively operates as a stand alone fire alarm control panel monitoring detectors and driving sounders in a zone. An automatic detector activation on the zone instigates a search timer to allow the cause of the alarm to be investigated, and dealt with locally, prior to signalling a full alarm to the building fire alarm system. The unit is loop powered and reports its status back to the master panel at regular intervals.

Operation

The device monitors the detection zone for activations, if one occurs the following decisions are taken.

- If the activation is due to an MCP the device will immediately signal a fire condition to the host panel. This will then activate the unit and the local sounders will sound. The Local alarm LED on the unit will be illuminated.

- If the activation is due to an automatic device being triggered, a 'search' time of one minute will be started before the system is put into alarm.

If the mute button is pressed before the search time expires the fire signal to the host panel is delayed by up to 2 minutes. If the zone returns to normal within this time no further action is taken.

If the mute button is pressed prior to an activation an 'isolated' period of 15 minutes is instigated. If the mute button is pressed again during the 'isolated' period the device returns to normal.

An internal buzzer sounds 15 seconds prior to either the muted or the isolated period expiring.

If the mute button is pressed during the 15 second expiry period the original time-out of 2 or 15 minutes is re-set.

If the master panel has a fire activation the device can be programmed to activate the sounder outputs, this overrides any muted, or isolated state.

Technical Specification

Technical Specification:

Loop

Protocol	Protec Algo-Tec™ 6000
Number of Addresses	1
Loop Voltage Range	18 to 28V
Loop Powered	Yes
Loop Standby Load	0.7mA quiescent + detector zone load (500µA max) + (3mA if resistive EOL used)
Loop Alarm Load (Max)	5mA + detector zone load (12mA max) + sounder load (50mA max)

General

Environment	0° to 50° (85% RH non condensing)
Ingress Protection	IP21
Applicable Standards	EN54 parts 17 and 18
Weight	110g (no backbox)

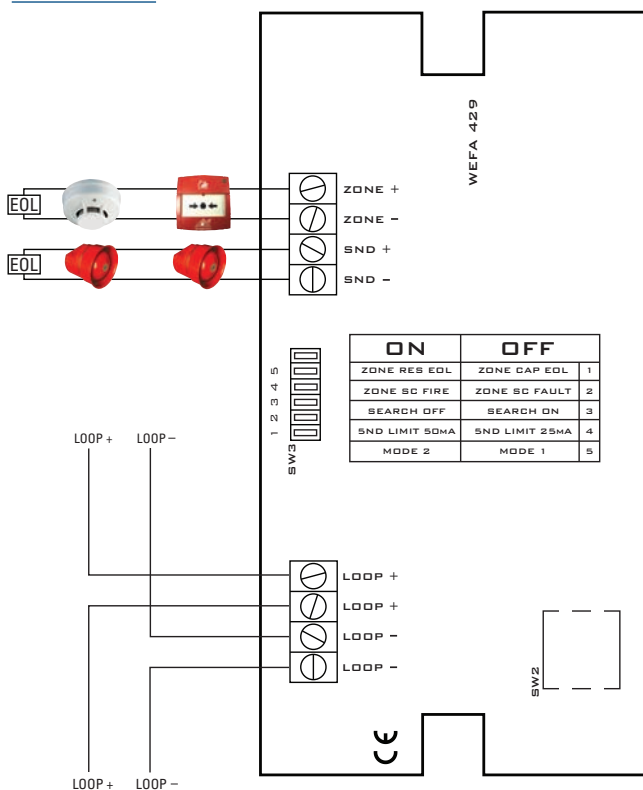
Local Detection Zone

Manual Call Point	Must be fitted with 330Ω or 180Ω resistor
Detectors Supported	Protec 3000 and 3000PLUS
Short Circuit Current	12mA maximum
Quiescent Current	500µA maximum
Max Number of Detectors	10
End Of Line Capacitive	(100µF in series with 22Ω) or resistive (8.2kΩ 1/4W ± 5%)
Cable Type	2 core screened. 200 metres maximum length

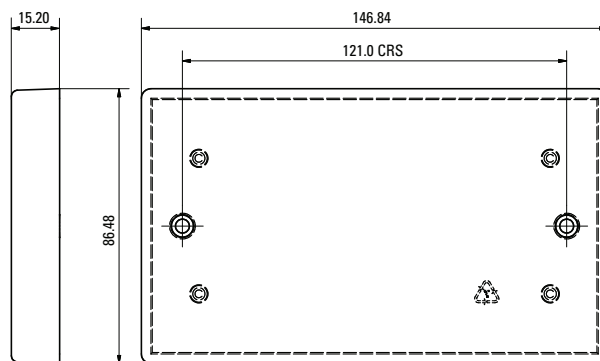
Local Sounder Circuit

Sounders Supported	Protec 3000 or 3000PLUS low current electronic sounders
Sounder Current	Current limit of 25mA or 50mA (switch selectable)
End of Line	10kΩ 1/4W ± 5%
Cable Type	2 core screened. 200 metres maximum length

Circuit Board



Dimensions (mm)



Backbox Requirements - Surface or flush double gang pattress box minimum of 25mm deep.