



## Panels

Product Code	Loop	Areas	Size (mm)
#31161M3	1	1	385 x 520 x 110
#32161M3	2	1	385 x 520 x 110
#31162M3	1	2	385 x 520 x 110
#32162M3	2	2	385 x 520 x 110
#31163M4	1	3	385 x 700 x 145
#32163M4	2	3	385 x 700 x 145
#31164M4	1	4	385 x 700 x 145
#32164M4	2	4	385 x 700 x 145

'#' - replace with 'A' for Apollo protocol,

'V' for Argus Vega protocol or 'H' for Hochiki protocol.

## Technical

<b>Construction</b>	- 1.2mm mild sheet steel
<b>IP Rating</b>	- IP30
<b>Finish</b>	- Epoxy powder coated
<b>Colour - lid &amp; box</b>	- BS 00 A 05 grey - fine texture
<b>Colour - controls plate &amp; labels</b>	- RAL 7047 light grey - satin
<b>Weight</b>	- 10kg
<b>Mains supply</b>	- 230V AC, 50Hz +10% - 15% (100 Watts maximum)
<b>Mains supply fuse</b>	- 1.6 Amp ( F1.6A L250V)
<b>Power supply rating (1 &amp; 2 area units)</b>	- 3 Amps total including battery charge 28V +/- 2V
<b>Power supply rating (3 &amp; 4 area units)</b>	- 4 Amps including battery charge 28V +/- 2V
<b>Maximum ripple current</b>	- 200 millivolts
<b>Battery charge voltage</b>	- 27.6VDC nominal (temperature compensated)
<b>Battery charge current</b>	- 0.7A maximum
<b>Battery fuse</b>	- 20mm, 3.15A glass
<b>Current draw in mains fail condition</b>	- 54 milliamps per extinguishing module
<b>Max. current draw from batteries</b>	- 3A (#31161M3, #32161M3, #31162M3, #32162M3) 5.25A (#31163M4, #32163M4, #31164M4, #32164M4)
<b>Sigma XT+ module Aux 24V output</b>	- Fused at 500mA with electronic fuse - 1 per extinguishant area
<b>Syncro AS Aux 24V output</b>	- Fused at 2.5A - not available to user
<b>1st and 2nd stage Sounder outputs</b>	- 21 to 28V DC Fused at 1A with electronic fuse
<b>Fault relay contact rating</b>	- 5 to 30VDC 1A Amp maximum for each
<b>Fire relay contact rating</b>	- 5 to 30VDC 1A Amp maximum for each
<b>Local fire relay contact rating</b>	- 5 to 30VDC 1A Amp maximum for each
<b>First stage contact rating</b>	- 5 to 30VDC 1A Amp maximum for each
<b>Second stage contact rating</b>	- 5 to 30VDC 1A Amp maximum for each
<b>Extract contact rating</b>	- 5 to 30VDC 1A Amp maximum for each
<b>Terminal capacity</b>	- 0.5mm <sup>2</sup> to 2.5mm <sup>2</sup> solid or stranded wire
<b>Number of sounders per circuit</b>	- Dependent on type and current consumption - typically 20+
<b>Monitored input end of line</b>	- 6K8 +/- 5% ½ Watt resistor
<b>Sounder circuit end of line</b>	- 10K +/- 5% ¼ Watt resistor
<b>Extinguishant output end of line</b>	- 1N4004 Diode
<b>Number of detection loops</b>	- 1 or 2
<b>Number of zones</b>	- 16
<b>No. of sounder circuits</b>	- Dependent on model 21 to 28V DC
<b>Extinguishant release output</b>	- 21 to 28V DC. Fused at 1 Amp
<b>Extinguishant release delay</b>	- Adjustable 0 to 60 seconds (+/- 10%)
<b>Extinguishant release duration</b>	- Adjustable 60 to 300 seconds
<b>SIL, AL, FLT, RST inputs</b>	- Switched -ve, min resistance 0 ohms, max resistance 100 Ohms
<b>Cabling</b>	- FP200 or equivalent (max capacitance 1uF max inductance 1 mH)
<b>Monitored inputs normal threshold</b>	- 10K ohm to 2K ohm
<b>Monitored inputs alarm threshold</b>	- 2K ohms to 150 ohms +/- 5%
<b>Monitored inputs Short circuit threshold</b>	- 140 ohms to 0 ohms +/- 5%
<b>Status unit/Ancillary board connection</b>	- Two wire RS485 connection (EIA-485 specification)
<b>Status unit power output</b>	- 21 to 28V DC. Fused at 500mA with electronic fuse