



BS-EN12094-1
KM 96761

Syncro XT+

Multi-Area Addressable Extinguishant Control Panels



Product Overview

- Syncro XT+ control panels are multi-area extinguishant control panels complying with EN12094-1, EN54-2 and EN54-4.
- Up to 16 zones of addressable detection over 1 or 2 loops are available for extinguishant release. Up to 4 extinguishant areas are available. Stand alone extinguishant control units are also available with 2 monitored inputs to receive initiating signals from remote fire detection control panels or addressable modules.
- Each extinguishant area has a comprehensive set of inputs and outputs and is configurable via a simple programming interface. All extinguishant areas may have up to 7, serially connected Sigma Si status indication and control units or ancillary relay boards connected via a simple 4 core cable.
- For compatible status units see Sigma Si data sheet DS41.

Features

- Approved to EN12094-1, EN54-2 and EN54-4
- 16 detection zones
- Up to 4 extinguishant areas
- Dual extinguishant outputs for each area (configurable as Main/ Reserve)
- First and second stage sounder outputs for each area
- First and second stage volt free changeover contacts for each area
- Released volt free contact per area
- Fault volt free contact per area
- Programmable extinguishant delays
- Programmable output duration
- Countdown indicator shows time until release in seconds
- Mode select and manual release controls per area
- Monitored remote manual release input
- Monitored remote hold input
- Monitored remote mode select (door interlock) input
- Monitored remote released pressure switch input
- Monitored Abort input
- Serial connections for Sigma Si status units and ancillary boards. (KS88)

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 or `H` for Hochiki protocol.

Technical

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