



Suppression Panels - Addressable

Syncro XT+ Extinguishing Control Panel

Features

- Approve to EN12094-1, EN54 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 delay
- 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. (K588)

Product Overview

- Syncro XT+ multi area addressable control panel enables extinguishing systems to use all the features and benefits of the more sophisticated detection techniques provided by addressable fire detectors. It also includes other benefits of analogue addressable systems such as control of loop connected sounders, beacons and input/output modules.
- With up to 16 zones of addressable detection over one or two loops it ensures every detector can contribute to the extinguishant release.
- The Syncro XT+ has up to four extinguishing areas and two releasing outputs per area which can be controlled via simple coincidence detection or via more complex cause and effects configured by the Loop Explorer configuration programme.
- Each extinguishant area has a comprehensive set of inputs and outputs and is configurable via the Loop Explorer configuration programme. All extinguishant areas may have up to seven serially connected Sigma Si status indication and control units, or ancillary relay boards connected via a simple four-core cable.
- With the addition of a Syncro network card, Syncro XT+ control panels can be networked to provide scalable extinguishing systems for all sizes of installation.



BS-EN12094-1
KM 96761



Approvals registered under Kentec Electronics Ltd



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Syncro XT+

Extinguishing Control Panel

Technical Specifications

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 +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)	-	54 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 module
Max. current draw from batteries	-	3A (K31161M3, K32161M3, K31162M3, K32162M3) 5.25A (K31163M4, K32163M4, K31164M4, K32164M4)
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
1 st and 2 nd stage sounder outputs	-	21 to 28V DC fused at 1A with electronic fuse
Fault relay contact rating	-	5 to 30VDC 1A Amp maximum
Fire relay contact rating	-	5 to 30VDC 1A Amp maximum
Local fire relay contact rating	-	5 to 30VDC 1A Amp maximum
First stage contact rating	-	5 to 30VDC 1A Amp maximum
Second stage contact rating	-	5 to 30VDC 1A Amp maximum
Extract contact rating	-	5 to 30VDC 1A Amp maximum
Zone quiescent current	-	2mA maximum
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% ½ Watt resistor
Extinguishant output end of line	-	1N4004 Diode
No. of detection circuits	-	1 or 2
No. of sounder circuits	-	Dependent on model, 21-28V DC
Extinguishant release output	-	21 – 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 1uFmax inductance 1mH)
Monitored inputs normal threshold	-	10K ohms to 2K ohms
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	-	21-28V DC. Fused at 500mA with electronic fuse

Panels

Product Code	Loop	Areas	Size (mm)
K31161M3	1	1	385 x 520 x 110
K32161M3	2	1	385 x 520 x 110
K31162M3	1	2	385 x 520 x 110
K32162M3	2	2	385 x 520 x 110
K31163M3	1	3	385 x 700 x 145
K32163M3	2	3	385 x 700 x 145
K31164M3	1	4	385 x 700 x 145
K32164M3	2	4	385 x 700 x 145