FIRECLASS

Duo-Cel
2 - 8 Zone Conventional Panels

General Features

· EN54 with CPD Approval

· 2,4 & 8 Zone versions available in an aesthetically pleasing design

· Sturdy, flame retardant, ABS plastic enclosure with controls, zone text insert & indications overlay

· Easy to install, programme and use. Key operated controls access (no 'user confuser' codes!)

· Panel can be surface or semi flush mounted and has 20mm cable gland breakouts

· Comprehensive LED indications and user/ engineer controls

· Low standby power consumption

· Four and eight zone panels have four monitored sounder circuits whilst the two zone panel has two circuits

· 1.5A switched mode power supply with temperature compensated battery charging

· Enclosure houses 3.4Ah SLA batteries as standard

· 8 Zone repeaters available with 24V or mains operation (suitable for 4 & 8 zone panels only)

· Capacity to drive up to three repeater panels

· Independent zone testing feature and sounder test mode available

Overview

Duo-Cel bring a high level of functionality in an entry level package suitable for most small installations. The panel is designed to work senselessly with the FireClass range of detectors, calpoints and sounders and has many useful configurable options, inputs and outputs to aid with installation and retrofitting.

Part Numbers

508.031.702	Duo-Cel 2 Zone Panel
508.031.703	Duo-Cel 4 Zone Panel
508.031.704	Duo-Cel 8 Zone Panel
508.031.705	Duo-CEL 8 Zone AC Repeater
508.031.706	Duo-CEL 8 Zone DC Repeater

LPCB

A new class of Fire Detection

Specifications

FUNCTION	Duo-Cel 2 - 8 Zone	Mains Repeater	DC Repeater
Mains Supply Voltage	230V ac (-15% to +10%)	230V ac (-15% to +10%)	N/A
Mains Frequency	47.5 - 63 Hz	47.5 - 63 Hz	N/A
Mains Fuse (Non Serviceable)	3A 20mm Glass	3A 20mm Glass	N/A
Battery Fuse	2A 20mm FB Glass	2A 20mm FB Glass	N/A
Operating Temperature Range	-5° to 40°C	-5° to 40°C	-5° to 40°C
Max. Operating Humidity	95%	95%	95%
Max. Batt. Charger Output	28.15VDC >1.4A	28.15VDC >1.4A	N/A
Max. PSU Output	1.5A 18-29V	1.5A 18-29V	N/A
Conventional Sounder Circuits	4 (2 On 2 Zone)	N/A	N/A
Max. Alarm Circuit Output	28.4VDC 500mA	N/A	N/A
Max. Aux DC Output	28.4VDC 250mA	28.4VDC 250mA	N/A
Battery Type (Set required for 24V)	3.4Ah - 12Ah SLA	3.4Ah - 12Ah SLA	N/A
S/by / Mains Fail Alarm Current 2 Zone	23mA / 63mA	N/A	N/A
S/by / Mains Fail Alarm Current 4 Zone	28mA / 76mA	-	-
S/by / Mains Fail Alarm Current 8 Zone	36mA / 84 mA	17mA / 22mA	8mA / 13mA
DC Repeater Supply	N/A	N/A	20 - 30VDC
IP Rating	30	30	30
Panel Dimensions (mm W x H x D)	365 x 273 x 110	365 x 273 x 110	365 x 273 x 110
Native Panel Weight	2.2 Kg	2.2 Kg	1.8 Kg
Panel Colour	Light Grey RAL 7035	Light Grey RAL 7035	Light Grey RAL 7035

Controls & Panel Connections

User Controls
Controls Access Keyswitch
Evacuate
Silence Buzzer
Silence/Resound Alarms
Reset
Disable
Test
Select

Panel Indications
Supply On
General Fire
General Fault
General Test
General Disablement
Alert/Evac On
Fire Signal On
Fire Signal Fault
PSU Fault
Fuse Failed
Repeater Fault
Remote Control Fault
Controls On
Repeater 1,2 & 3 Fault
Zone Fires
Zone Faults

Repeater Comms
2 core screened RS485 data cable,
4 core if powered from panel

Panel Terminals
Zones + & -
Fire Signal + & -
Fire Relay N/C,N/O & POLE
Fault Relay N/C,N/O & POLE
Remote Controls Input & 0V
Disable, Evacuate & Buzzer Active Outputs
Aux. 24VDC & 0V Outputs
Repeater A & B Comms.
Alarm Circuits + & -

Other Inputs & Controls
Battery Spade Connectors Mounted On PCB
Molex Power Supply Connector
Engineers Alarm Counter Reset Button
Dip switch activated programming options
Earth Fault Disable link
Firmware Programming Header

Remote I/P Details

Input:	Trigger Resistor Value:
Class Change	4K7
Alert	2K2
Evacuate	1K
Silence	470R
Reset	220R

Remote O/P Details

Evacuate Activated	50mA (30V)
Buzzer Activated	50mA (30V)
Disabled	50mA (30V)
Fire Signal	28V 250mA (Monitored)

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