



## Features

- Dual Door Holder Outputs
- Mains Only Mode
- Low Quiescent Current
- Single PCB architecture
- Walk Test Facility
- Class Change Input
- Alert Input
- Up to 40 Conventional detectors per Zone
- Available in ABS (BX1) and Metal (BX10) cabinet versions

## Description

The **ZoneSense DH4** is a four (4) zone conventional Fire Alarm Control Panel (FACP) with a front panel layout that offers a user friendly interface, clear visual indications and tactile-feedback for controls.

The design of the **ZoneSense DH4** focuses on applications for local alarm FACP's – i.e. a non-brigade calling system but with a host of features.

Key features of the **ZoneSense DH4** FACP include:

- Dual Door Holder Outputs – two failsafe 24VDC outputs for fire door operation. The outputs being de-activated and doors released if an alarm condition is present or they are manually released at the front panel
- Mains Only Mode or optional backup battery operation – factory set to operate on mains only. Changing the setting will permit monitoring of optional batteries
- Low quiescent current – of particular benefit if the battery option is used
- Walk Test Facility – allows a single person to perform a system test
- Class Change Input – allows the alarm output to be controlled by an external programmable timer
- Alert Input – when an alert input is active the alarm output will pulse on & off in 1 sec intervals
- Easy to use – the panel is simple to operate, install and commission therefore reducing costs
- Each detection circuit accommodates up to 40 Conventional Fire Detectors



Figure 1 2250-4200 ZoneSense DH4 ABS Cabinet (BX1)



Figure 2 2250-4250 ZoneSense DH4 Metal Cabinet (BX10)

The main board:

- Accommodates the visual indications and controls
- Two (2) volt-free changeover contacts (Fire & Fault)
- Termination for detection zones
- Two (2) monitored alarms outputs – open collector
- Two (2) unmonitored door holder outputs
- Two (2) non-latching inputs ('class change' and 'alert')
- Auxiliary 24VDC output
- On board power supply



## ZoneSense DH4 A Conventional Fire Alarm Control Panel

PDS2250-4200

### Indicators

Description	Colour
Power	Green
Power Fault	Amber
System Fault	Amber
Controls Enabled	Amber
Auxiliary power Fault	Amber
Fire Output Disabled	Amber
Fault Output Disabled	Amber
Door Holder Output Status	Amber
Test	Amber
Fire Output On	Red
Door Released	Amber
Alarm Status	Amber
Fire	Red
Fault	Amber
Disabled	Amber
Individual Zone Fire	Red
Individual Zone Fault/Disabled/Test	Amber

### Controls

Description	Function
Release	De-activates both door holder outputs. Outputs remain de-activated until cleared by a "Reset" control at access level 2
Silence Resound	Turns alarms outputs off after "Fire" condition, toggles to turn alarms outputs back on at access level 2
Silence Buzzer	Silences FACP buzzer on receipt of "Fire" or "Fault" condition
Reset	Returns the panel to the normal state at access level 2
Evacuate	Turns on all Alarms Outputs and "Fire" indicator at access level 2
Next (0)	Used to enter password (0) and select zone or output for "Disable" or "Test" at access level 2
Lamp Test (1)	Used to enter password (1) and initiate lamp or walk test at access level 2
Disable / Enable (2)	Used to enter password (2) and "Disable" or "Enable" selected zone or output at access level 2
Exit (3)	Used to enter password (3) or exit back to access level 1

### Item Numbers

2250-4200	ZoneSense DH4 ABS (BX1) excl Batteries
2250-4250	ZoneSense DH4 METAL (BX10) excl Batteries
ENC3016-A	Metal BX10 Surround

### Specification

<b>Power Supply</b>	
Mains Supply voltage	204 – 264 VAC @ 47 – 63Hz
Nom. Operating voltage	27 VDC
Power Supply Current	1.6 A (max)
Quiescent Current	20 mA (without Door Holder)
Operating Temperature	-5° to +55° C
Relative Humidity	25% - 75%
<b>Zone Detection Circuit</b>	
No of Zones	Four (4) x 2-wire system
Zone Monitoring	Open and Short circuit
Zone Quiescent Current	4mA, 10uF EOL
No of Detectors/Circuits	40 (max)
End Of Line (EOL)	10uF EOL
Max Cable Length	3km (Based on cable resistive and capacitive values of 50Ω and 1uF respectively)
<b>Outputs Available</b>	
Alarm Outputs (monitored)	Open Collector, 250mA (2 O/P's available) 10KΩ EOL
Door Holder outputs (monitored)	Open Collector, 250mA (2 O/P's available) 10KΩ EOL
Fire Output Relay (voltage free)	NO, C, NC Contact rating: 1A @ 30VDC
Fault Output Relay (voltage free)	NO, C, NC Contact rating: 1A @ 30VDC
Auxiliary DC Output	150mA @ 24VDC
<b>Miscellaneous Features</b>	
Class Change Input	Non-Latching, switched -ve
Alert Input	Non-Latching, switched -ve
Battery Monitoring	4 Way DIP switch array (factory set to "OFF")

### Mechanical

Material:	
ABS Cabinet	ABS/Blend High Impact
Metal Cabinet	1.2mm Mild Steel
Finish:	
ABS Cabinet	ABS Light Grey
Metal Cabinet	Metal Oyster Matt Ripple
ABS (BX1)Cabinet	H 300mm x W 360mm x D 100mm
Metal Cabinet (BX10)	H 300mm x W 360mm x D 100mm
Packed	H 310mm x W 500mm x D 110mm
Weight Packed excluding batteries	ABS 3kg Metal 5.2kg



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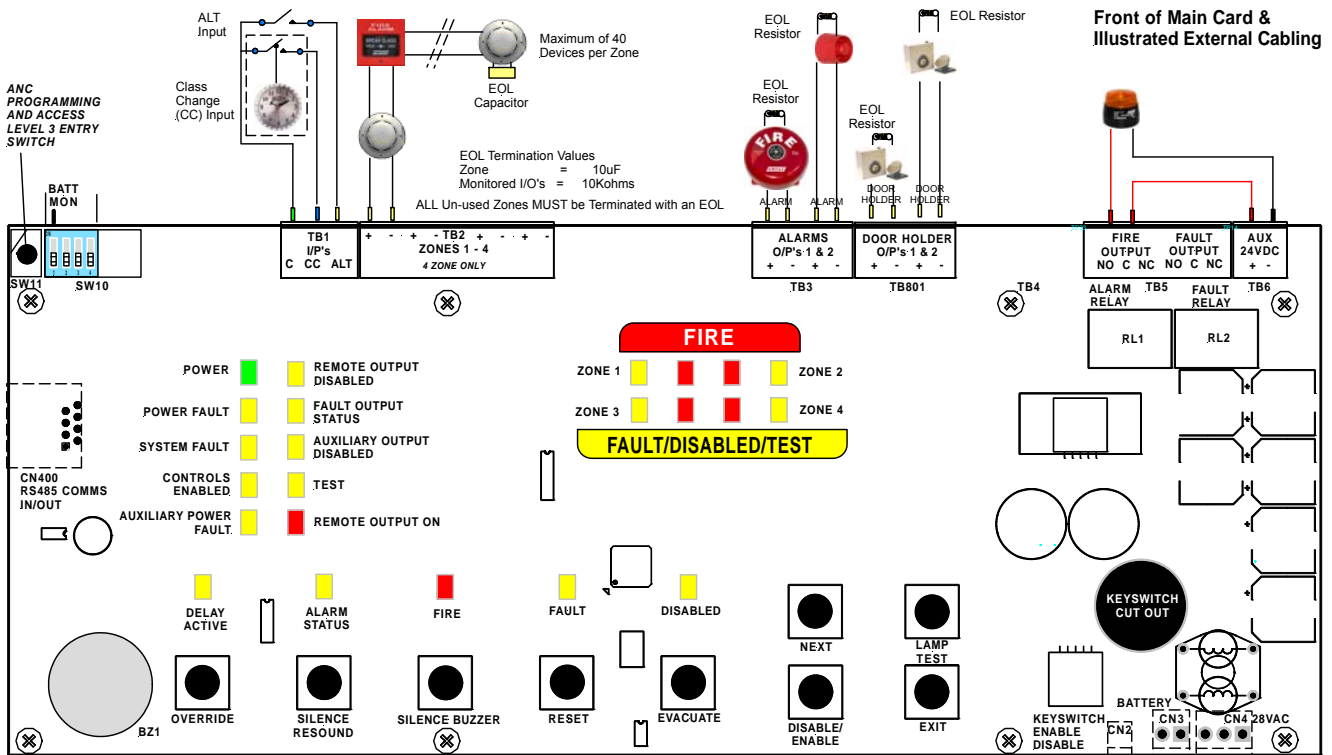


Figure 3: Wiring layout