How to Use Checkpoint Technology in a TWINFLEX System Installation

Zone Planning

At the planning stage, fire zones are designated as either "Dwelling" or "Communal". Multipoint detectors in the dwelling zones have the facility to use Fike's Checkpoint Technology. The checking period can be between 1 – 5 minutes and is selected at commissioning stage upon consultation with fire officers or other authorised bodies.

Communal Zones

Communal area, e.g. hall/stairway; kitchen; lounge. When a detector alarm is activated on this type of zone, the control panel enters the fire state and the alarms are immediately activated throughout the installation.

### Single Dwelling per Zone (Zonal Confirmation Alarm)

When a detector alarm is activated on this type of zone, all sounders on the zone are activated and the control panel carries out the configured number of confirmation checks. If the detector alarm is confirmed, the control panel enters the fire state and the alarms are activated throughout the installation; if the detector alarm is rejected, the sounders on the zone are silenced, and the detector in alarm is reset.

### Multiple Dwellings per Zone (Local Confirmation Alarm)

When an alarm is detected in dwellings requiring a single detector/sounder (e.g. hostel; hall of residence; hotel rooms; bedsits), the integral sounder in the detector that generated the alarm signal is activated and then the control panel carries out the configured number of confirmation checks. If the detector alarm is confirmed, the control panel enters the fire state and the alarms are activated throughout the installation; if the detector alarm is rejected, the sounder is silenced, and the detector reset.

Communal Zone
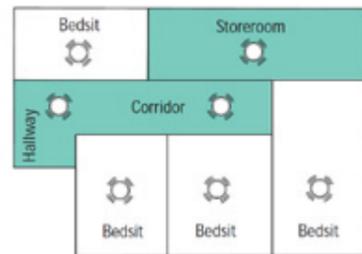
Single Dwelling Zone
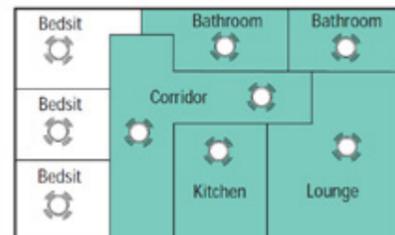
Multiple Dwellings per Zone
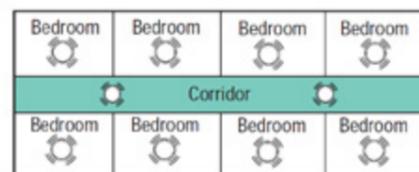
TWINFLEXpro Control Panel

The TWINFLEXpro Control Panel range offers a complete solution for your fire alarm system...all on just 2 wires

TWINFLEX control panels are available in 2, 4 or 8 zones.

- Key or code access for control of user functions.
- LCD screen with zonal identification text.
- 500 Event log.
- Break glass identification on panel to differentiate between call point or detector alarm.
- Up to 72 hour Standby.
- 2 auxiliary sounder circuits.
- "Alarm confirmation" Pre alarm facility.
- Control panel warning for head contamination-indication on panel display to signal that optical chamber is contaminated.
- Complies to BS5839 and EN54 part 4.
- Multi-function walk test facility.
- Easy to install and configure.
- A wide range of input and output functions to make system interfacing simple.
- Dual purpose flush or surface housing.
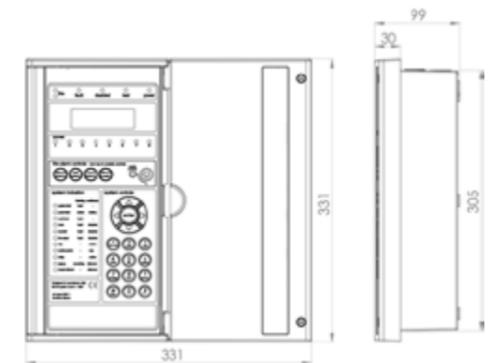
Fike P/N	Description
505 0002	TWINFLEXpro 2 Zone Control Panel
505 0004	TWINFLEXpro 4 Zone Control Panel
505 0008	TWINFLEXpro 8 Zone Control Panel 4 Zone Expansion PCB (For 505 0004 Only)

Specifications:

Dimensions:	Width x Height:	331mm x 331mm
	Depth:	99mm
Operating Temperature:		+5°C to +40°C
Mains Supply Range:		230VAC, +10%, -15%, 50/60Hz
Standby Battery Requirement:		2 x 3.3Ah 12V Sealed Lead Acid
Number of Zones:		2 / 4 / 8
Max Zone Length:		500 Metres
Zone Loading:		160 DLU (32 Devices Max)
Zone Operating	Voltage: Nominal:	29.9VDC
Max Zone Current:		250mA
LCD Display:		4 Lines of 20 Characters
Zone Labels:		12 Characters
Event Log:		500 Events
Inputs and Outputs:	Inputs:	1 x Resistance Monitored Input (3k3 EOL,680R Firing Resistor)
		2 x Un-Monitored Inputs
	Fault Output:	1 x Volt Free Relay (30VDC @ 0.2A Max)
	Fire Outputs:	1 x Volt Free Relay (30VDC @ 0.2A Max)
		2 x 24V Conventional Sounder/ Remote Fire Circuits (10K EOL, 250mA Max)

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