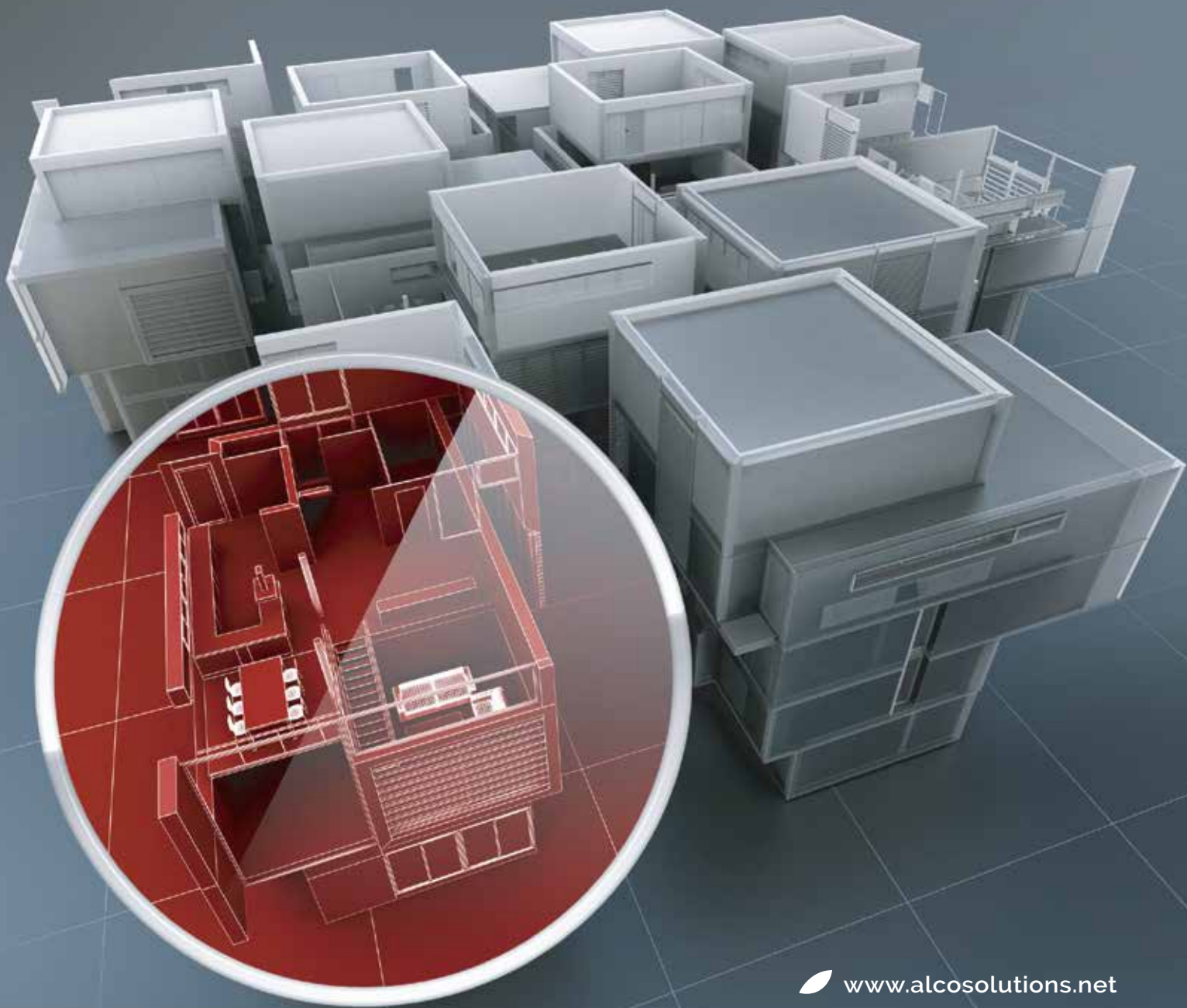




# FIRE DETECTION SYSTEM



# ADDRESSABLE FIRE ALARM SYSTEM



## INTRODUCTION

**Alco addressable fire detection** and alarm system are **microprocessor** controlled state-of-the-art products. The range includes control and indicating equipment detectors, modules and manual all point. Up to **125** devices can be connected to each alarm zone looping providing a flexible alarm zone configuration solution to most building configuration requirements. Devices use problem-free DIP switch address setting. *The Alco range of addressable products fire detection and alarm system designers with premium products for life safety and property protection applications.*

## ADDRESSABLE CONTROL AND INDICATING EQUIPMENT

**Control** and **indicating** equipment forms the central hub of the fire detection and alarm system. Products are available as single or multiple-loop models. Network able models provide a flexible and powerful solution for small and medium sized application. Easy to configure and commission, Alco control and installation with a minimum of time and effort. *Designer housing in a small foot-print adds attractiveness to architects and building owner.*

## ADDRESSABLE MULTI-SENSOR DETECTORS

**Addressable** photoelectric **smoke/heat detectors** use a photoelectric smoke sensing chamber in combination with an electronic thermistor to provide early detection of fire and high immunity against unwanted alarms. The heat sensor provides sensitive rate-of-rise Operation or fixed temperature operation when this responsethres hold value is exceeded. *The reliable detectors are ideal for general applications in commercial and industrial buildings.*

## ADDRESSABLE SMOKE DETECTORS

**Addressable photoelectric** smoke detectors use a photoelectric smoke sensing chamber to provide early detection of smoke and high immunity against unwanted alarms.

## ADDRESSABLE HEAT DETECTORS

**Addressable heat detectors** use an electronic thermistor sensor to provide sensitive rate-of-rise alarm operation, or fixed-temperature operation when the response threshold and taxis gas can build up before a heat detector might operation. Where life safety and building evacuation is necessary in the event of a **fire, smoke, gas** or combination detectors usually provide earlier warning then heat detectors alone. *Earlier warning then heat detectors alone.*

## DETECTOR BASES AND ACCESSORIES

The range of bases is suitable for **2-wire fire detection** and alarm system. Both functional and passive bases provide fire detection and alarm system designers with **standards-compliant**, to up-flexible solution. Loop isolators allow up-steam detectors to continue to work, even in the case of a short-circuit fault in the alarm zone loop wiring. Remote indicators provide visual alarm indication when the connected detector enters the alarm condition. *The indicator is useful where the detector cannot be easily seen when installed in the building.*

## ADDRESSABLE MANUAL CALL POINTS

**Manual call points** have integral alarm indicators that illuminates when the manual call point had been activated operation is achieved through the use of pressure activated displacement element which provides a safe and convenient way for building occupants to manually initiate a fire alarm condition resetting the manuall call point achieved by inserting a key to return the operating face to the quiescent position.

## ADDRESSABLE MODULES

The range of modules provides both input and output and output control for **fire detection** and **alarm systems** Both dry contact and opto-isolated outputs are available to drive **audio/visual alarm devices** and relays. Some inputs are specifically designed to connect non-addressable detectors to the Alco addressable loop. *Three miniature sized modules complement the range to provide convenient space-saving solution.*

# FIRE ALARM CONTROL PANEL

MODEL NO: AFS-FAP6000

## DESCRIPTION:

The **FAP 6000 Addressable Control** and indicating equipment forms the central part of a Fire detection and alarm system.

The **FAP 6000** is compatible with **Alco Addressable devices** and supports both Alco ST and TP loop protocols. Either 125 or 250 devices per loop are supported. Addressable devices can also be connected to the 6000, when used with addressable input modules.

The **FAP 6000** comes standard with **2-loops**, and is expandable up to 24-loops. Default configuration programming facilitates out-of-box installation and rapid commissioning.

*A powerful and versatile cause-and-effect PC-based programming tool enables rapid customization with software for sites that require special operating features.*



## TECHNICAL FEATURES:

- Single loop or 2-loop options available
- Single loop, expandable to 2-loops available
- Networkable, up to 4 control panels
- Supports up to 125 addressable devices per loop
- Automatic device detection on start-up
- Automatic device type-code verification
- 2 independently programmable non-addressable sounder output circuits
- 2 programmable relay outputs
- Remote disable and evacuation inputs
- Backlit LCD display providing 4 rows of 40 characters
- 16 zone fire alarm LED indicators 3000 event history log
- Attractive designer enclosure available in white
- Surface mounting
- Easy installation

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\*Models may vary from time to time due to continuous improvement in product design, features, technology and stability for a better user experience.

## REPEATER PANEL

MODEL NO: AFS-R6000

### DESCRIPTION:

The **6000 Addressable AC Repeater Panel** extends the 6000 Addressable control and indicating equipment display to a remote location.

The **Repeater Panel** is compatible with all Alco 6000 control panels and is powered from an external AC supply.

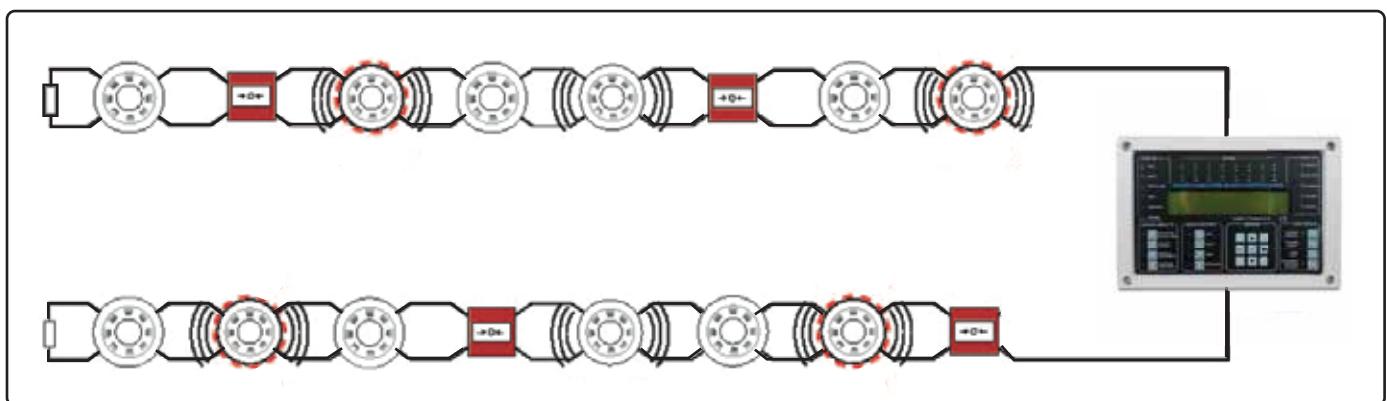
The **Repeater Panel** comes standard with features that allows flexibility and expandability.

*Default configuration programming facilitates out-of-box installation and rapid commissioning.*



### TECHNICAL FEATURES:

- Backlit LCD display provides 4 rows of 40 characters
- 16 zone fire alarm LED indicators
- Recessed mounting enclosure
- Powered from an external AC supply
- Up to 4 repeater panels can be connected to a single control panel.



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## NETWORK INTERFACE CARD

MODEL NO: CFS-NIC6000

### DESCRIPTION:

The **6000 Network Interface Card** is used to form a ring network of Alco control panels and repeaters. Robust data communications uses separate transmit and receive transmission paths to provide superior reliability.

The transmission paths are constantly monitored for fault conditions in the wiring. A single fault will continue to allow network communications.

### TECHNICAL FEATURES:

- RS422/RS-485 data communications protocol
- Ring topology
- Monitoring of short- and open-circuit conditions in the transmission path
- Fault-tolerant transmissions allows continuous data communications with a single fault in the transmission



## REMOTE LED DISPLAY CARD

MODEL NO: AFS-LDC6000

### DESCRIPTION:

The **6000 remote LED display card** is used to repeat the discrete LED indications of Alco control panels. Sixteen discrete LEDs can be configured to display multiple Alarm and Fault conditions, or system status conditions remotely from the control panel.

### TECHNICAL FEATURES:

- Configurable for 8-zone LED Display of Alarm and Fault conditions
- Configurable for 16-zone LED Display of Alarm conditions
- Configurable for 16 LED Display of system status conditions
- High intensity, low power consumption LEDs



## LOOP EXPANSION CARD

MODEL NO: AFS-LEC6000

### DESCRIPTION:

The **6000 1-Loop Expansion card** is used with the 6001-05 Control Panels to add an additional loop, and up to 125 devices to the base panel.

### TECHNICAL FEATURES:

- Compatible with 6000-05 Control Panel
- Supports up to 125 devices
- Easy installation and configuration



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# SMOKE + HEAT DETECTOR

MODEL NO: AFS-SHD600

## DESCRIPTION:

SHD600 Addressable Smoke/Heat detectors are microprocessor controlled state-of-the-art detectors compatible with popular control and indicating equipment loop protocols.

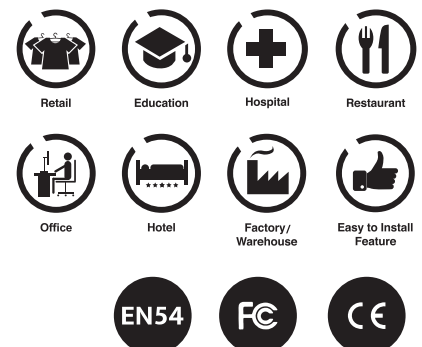
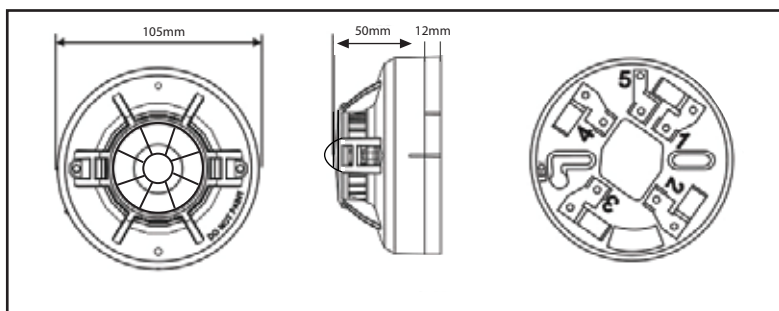
Advanced electronics in conjunction with a photoelectric smoke sensing chamber and an electronic thermistor provide early detection of fire and high immunity against unwanted alarms.

The heat sensor provides sensitive rate-of-rise operation or fixed-temperature operation when the response threshold value is exceeded. The 600 comes standard with features that allows flexibility and expandability



## TECHNICAL FEATURES:

- Photoelectric Smoke and Heat sensors
- Analogue detection discrimination
- Dual LEDs for 360° visibility
- 2-wire connection to many popular loop protocols
- DIP switch address setting
- 125 usable detector address settings per Loop
- Optional remote LED output



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## SMOKE DETECTOR

MODEL NO: AFS-SD600

### DESCRIPTION:

**SD-600 Addressable Smoke Detectors** are microprocessor controlled state-of-the-art detectors suitable for connection to **Alco Addressable Fire detection** control and indicating equipment.

Up to 125 detectors can be connected to each alarm zone loop. Advanced electronics in conjunction with a photoelectric smoke sensing chamber provides early detection of fire and high immunity against unwanted alarms.



### TECHNICAL FEATURES:

- Advanced algorithms provide analogue detection discrimination
- Surface-mount device (SMD) circuit board design
- High immunity against unwanted alarms
- Easy installation with simple address setting DIP switches
- Sleek low-profile housing design
- Dual LEDs for 360° visibility
- Convenient 2-wire connection

## HEAT DETECTOR

MODEL NO: AFS-HD600

### DESCRIPTION:

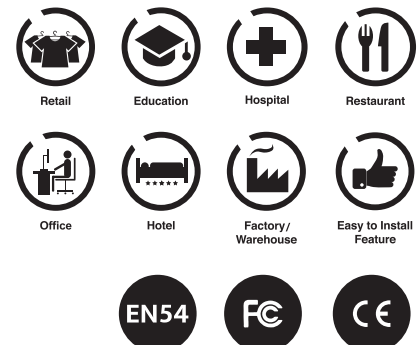
**HD-600 Addressable Heat detectors** are microprocessor controlled state-of-the-art detectors compatible with popular control and indicating loop protocols.

An electronic thermistor sensor provides sensitive rate-of-rise alarm operation, or fixed-temperature operation when the response threshold value is exceeded.



### TECHNICAL FEATURES:

- Durable heat sensor
- Analogue detection discrimination
- Dual LEDs for 360° visibility
- 2-wire connection to many popular loop protocols



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## 4-TERMINAL PASSIVE BASE

MODEL NO: AFS-TPB604

### DESCRIPTION:

**Terminal bases** are used with **2-wire fire detectors** that do not include additional features, such as remote indicator or alarm relay outputs.

### TECHNICAL FEATURES:

- Low profile
- Flexible mounting pitch
- Secure mounting to all surfaces
- Cable entry through the rear of the base
- Plated contacts for durable connection to detectors
- Fitted square washer for easy and reliable cable clamping
- Alarm zone circuit continuity models available



## 8-TERMINAL PASSIVE BASE

MODEL NO: AFS-TPB608

### DESCRIPTION:

**Terminal bases** are used with **2-wire fire detectors** that include remote **LED indicator** outputs.

### TECHNICAL FEATURES:

- Secure mounting to all surfaces
- Flexible mounting pitch Low profile
- Cable entry through the rear of the base
- Plated contacts for durable connection to detectors
- Alarm zone circuit continuity models available
- Fitted square washer for easy and reliable cable clamping



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## LOOP ISOLATOR

MODEL NO: AFS-LI600

### DESCRIPTION:

The **600 Loop Isolator** provides electrical isolation of alarm zone wiring for addressable fire detection control and indicating equipment.

The use of the 600 as part of the detector zone wiring ensures that short-circuit faults in the alarm zone loop wiring disable a minimum number of detectors.



### TECHNICAL FEATURES:

- Compatible with 2-wire fire detection and alarm systems
- Automatic operation
- LED activation indicator
- DC 24 V operation
- Automatic reset

## REMOTE INDICATOR

MODEL NO: AFS-RI600

### DESCRIPTION:

The **600 remote indicator** is used to identify the detector in alarm, and is useful where the detector cannot be easily seen when installed in the building.



### TECHNICAL FEATURES:

- Easily seen when in the alarm condition
- Wide operating voltage
- Easy installation with no adjustments required



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## MANUAL CALL POINT

MODEL NO: AFS-MCP600

### DESCRIPTION:

The **600 Manual Call Points** includes a pressure activated displacement element to provide a safe and convenient way for building occupants to manually initiate a **fire alarm condition**.

Resetting the manual call point is achieved by inserting a key through the underside of the unit to replace the operating face to the quiescent position



### TECHNICAL FEATURES:

- Pressure activated displacement element provides a safe user experience
- Integral indicator to show polling and alarm activation
- Resettable with simple key operation
- Monitors for quiescent, alarm and fault conditions
- 125 usable detector address settings per loop

## ALARM SOUNDER

MODEL NO: AFS-AB600

### DESCRIPTION:

The **Addressable Alarm Devices** are suitable for connection to **2-wire** addressable fire detection and alarm systems.

**AB600** is loop-powered and activation is initiated by a dedicated initiation message from the control and indicating equipment.

**Up to 125 devices can be connected to each alarm zone loop.**



### TECHNICAL FEATURES:

- Red available for alarm device
- Loop-powered from control and indicating equipment
- Operates when a dedicated message is received from the control and indicating equipment
- Loud sounder output of 85 dB at 1 m
- Low quiescent current
- DIP switch address setting

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## INPUT + OUTPUT MODULE

Model No: AFS-IOM600

### DESCRIPTION:

**600 Addressable** single Input/Output Modules provide the interface to connect an electrically isolated dry contact switched input to Alco addressable fire detection control and indicating equipment.

A parallel resistive input filter allows multiple states to be monitored at the input.

*The states are converted to the loop communications protocol by the module, to enable them to be displayed on the control and indicating equipment.*



### TECHNICAL FEATURES:

- Single voltage-free relay output
- Output relay can be powered internally or externally (selectable at installation)
- Single input for connection to dry contact inputs
- Monitors and signals three distinct input states: Normal; Alarm; Open-circuit
- Separate indicators for Quiescent, Alarm and Fault conditions
- Polling indicator shows quiescent operation
- DIP switch address setting
- 125 usable detector address settings per loop

## INPUT MODULE

Model No: AFS-IM600



## ALARM ZONE INPUT MODULE

Model No: AFS-IM601

### TECHNICAL FEATURES:

- Signals normal alarm and open-circuit alarm zone conditions
- Capable of supplying 35 mA to power non-addressable devices
- Fault condition indicator
- DIP switch address setting
- 125 usable detector address settings per loop



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## MINI INPUT MODULE

MODEL NO: AFS-IM602

### DESCRIPTION:

**602 Addressable Alarm Zone Mini-Modules** provide the interface to connect non-addressable input devices (such as detectors or manual call points) to Alco addressable control and indicating equipment.

### TECHNICAL FEATURES:

- Signals normal, alarm and open-circuit alarm zone conditions
- Small size
- Capable of supplying 13 mA to power non-addressable devices
- DC 24 V operation
- DIP switch address setting
- 125 usable detector address settings per loop



## MINI OUTPUT MODULE

MODEL NO: AFS-OM600

### DESCRIPTION:

**600 Addressable Output Mini-Modules** provide the interface to connect Conventional output devices (such as alarm devices) to Alco addressable control and indicating Equipment

### TECHNICAL FEATURES:

- Ideal for control of Alarm devices
- Signals normal and short-circuit alarm zone conditions
- Capable of supplying 35 mA to power Conventional devices
- DC 24 V operation
- DIP switch address setting



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