

# KAL790

## 700 Series Addressable Fire Door Control Unit

### General

The KAL700 series modules include a complete range of interfaces developed for I/O control on addressable fire systems running Kilsen protocol, housed in easy to install, IP55 housings. These modules allow the fire system to perform additional building management functions during fire situations. 125 I/O addresses are available on every fire panel loop in addition to 125 fire detector addresses.

### KAL700 Fire Door Controllers

The KAL790 provides a remote input for monitoring of the fire door, together with a potential free relay output for door magnet control, directly on the fire system loop. The input is constantly monitored for status change whilst the output provides a fail-to-safe control for the fire door. A facility to monitor the auxiliary supply controlling the door magnet is included.

### Installation

The KAL700 Series is designed for surface mount installation. Addressing on the modules is done via easy to use DIP switches. The KAL790 may be configured for external or loop power.

### Applications

The KAL790 is intended for use on firebreak doors with hold-open door magnets. In case of an alarm, the fire panel instructs the unit to release the door magnet, whilst the input monitor ensures that the door is properly closed. In case of a power failure to the door magnet, the auxiliary supply monitor notifies the panel and an alarm is raised. Having the control relay in fail-to-safe mode allows the relay to drop out in case of power failure to the unit, allowing the fire door to close normally and ensuring the integrity of fire area.



### Standard Features

- EN54:18 and CPD certified
- Surface mount
- Easy addressing
- External or loop powered
- Local alarm and communications indication
- Fire door control and status monitoring
- Part of a family of I/O modules consisting of:
  - Conventional zone monitors
  - Digital input modules
  - Extinguishing control modules
  - Loop Isolators
  - Manual call points
  - Relay and supervised output units
  - Fire door controllers

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### Specifications

Supply voltage	22-38 VDC
<b>Current consumption (External power)</b>	
Quiescent @ 24 V	110 $\mu$ A
Quiescent @ 35 V	135 $\mu$ A
Alarm	10 mA
Aux. 24 VDC quiescent	200 $\mu$ A
Aux. 24 VDC alarm	< 50 mA
<b>Current consumption (Loop powered)</b>	
Standby	350 $\mu$ A
Alarm	< 3.4 mA
End-of-line resistor	NA
Relay contact rating	0.5A @ 42 VAC/ 0.5 A @ 30 VDC
<b>Environmental</b>	
Storage temperature	-10°C to +70°C
Operating temperature	-10°C to +50°C
Relative humidity (non-condensing)	0-95 %
IP Rating	IP55
<b>Physical</b>	
Dimensions (L x W x H)	150 x 110 x 70 mm
Colour	Grey
Weight	370 g

### Ordering Information

Part No.	Description
KAL790	700 Series Addressable Fire Door Control Unit