



## KAL490

Retention Module - 1 Input / 1 Output

### General

The 400 Series devices consist of a complete range of interfaces developed for input/output control in the KSA700/FP1500 analogue fire systems from GE Security. Up to 125 400-Series devices may be installed on every loop. Device addressing is done via easy to use DIP switches.

### KAL430/KAL434 Relay Output Modules

The KAL430 and KAL434C provides for 1 or 4, potential free relay outputs respectively. Every relay allows for COMMON, NORMALLY OPEN and NORMALLY CLOSED contacts. These outputs may be used to activate ventilation control, door control, warning signs, activation of third party alarm devices etc., directly from the fire panel loop.

### KAL440/KAL441 Supervised Output Modules

The KAL440 allows for the control and supervision of a 24 VDC output on the fire system loop. It may be used to control sounders or switch any output considered crucial enough to have the cable integrity between the control unit and the activating unit continuously monitored. It needs to be externally powered.

The KAL441 is a loop powered unit that allows the GE Security AS263DS, AS264DS or the AS269 conventional sounders to be powered from the addressable loop.

### KAL460 Digital Input Module

The KAL460 provides a remote input point for monitoring on the fire system loop. It is normally used for monitoring any NORMALLY OPEN or NORMALLY CLOSED potential free contact, such as pressurisation equipment or fire doors. The status change of this input will be reported on the fire panel.

### KAL490 Retention Module

The KAL490 provides an input as well as a potential free, fail-to-safe output on the fire panel loop. The input and output are dedicated to control and monitor fire break doors. The relay provides the door control whilst the input monitors the door status. The auxiliary 24 VDC supply of this unit is also monitored.



### Standard Features

- Easy numeric addressing
- Externally or loop powered
- Normally open / normally closed operation for I/O
- Surface mount
- Aesthetically pleasing
- Local status indication
- Part of family of I/O modules consisting of:
  - Conventional Zone Monitors
  - Digital Input Modules
  - Extinguishing Control Modules
  - Isolator Modules
  - Manual Call Points
  - Output Units
  - Retention Units
  - Supervised Output Units for sounder control

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## Specifications

<b>Supply voltage</b>	22-38 VDC
<b>Current consumption</b>	
Quiescent @ 24 V	110 A
Quiescent @ 35 V	135 A
Alarm	10 mA
Aux. 24 VDC quiescent	200 A
Aux. 24 VDC alarm	< 50 mA
<b>End-of-line resistor</b>	NA
<b>Relay contact rating</b>	1A @ 30 VAC/VDC
<b>Environmental</b>	
Storage temperature	-10°C to +50°C
Operating temperature	-10°C to +70°C
Relative humidity (non-cond.)	95 %
<b>Dimensions (l x w x h)</b>	117 x 80 x 44 mm

## Ordering Information

Part No.	Description
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