

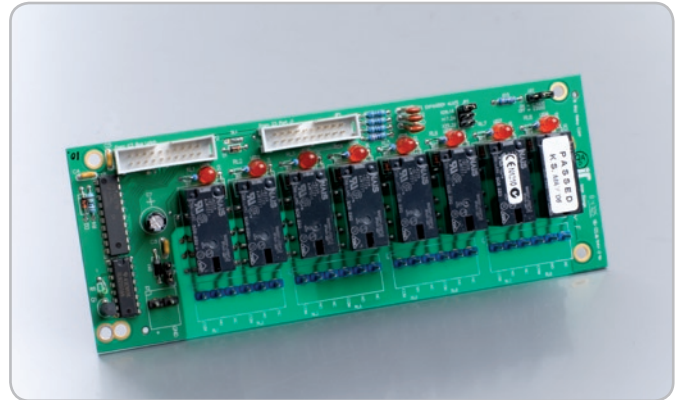
8 Relay Expander Boards for Expander Modules

For general purpose switching applications like process control, warning devices, simple building automation and even control of door locks, etc, the 8 Relay Expander Board adds 8 relays which can switch high-current, low voltage loads.

One 8 Relay Expander Board can be fitted to a Mini Expander, whereas up to three 8 Relay Expander Boards may be attached to a single Universal Expander by means of a Relay Extension Cable (995019).

Relay Extension Cable

If there is a requirement to install Relay Expander Boards away from their controlling module, or a need to connect more than one Relay Expander Board to a Universal Expander, the 440mm Relay Extension Cable can be used. It has three sockets to connect relay boards to a Universal Expander.



SPECIFICATIONS

Physical

PCB Dimensions – 995082E	180(L) x 68(W) (mm)
Installation Environment	0° – 40°C @ 15% to 85% Relative humidity (non-condensing)

Electrical

Input Voltage to PCB	Via host Universal Expander
Operational Current	Min.: 60mA (per relay when energised) Max.: 480mA (All relays active)

Outputs

Relay outputs	8
Max. switchable current per relay	10A @ 30VDC (resistive load) per relay
Max. combined output current	To be included within the constraints of the host Universal Expander

Universal Expander Options

16 Zone Expander Board

The 16 Zone Expander Board provides a cost-effective addition of another 16 zone inputs to the Universal Expander, as well as extra detector power supply connectors to simplify device wiring. Designed for installation within the same enclosure as its host Universal Expander, the expander is connected using a supplied ribbon cable.

Features:

- 16 Zone inputs
- Quick and easy installation
- Cost effective Zone input expansion option

SPECIFICATIONS

Physical

PCB Dimensions	180(L) x 68(W) x 15(D) (mm)
Installation Environment	0° – 40°C @ 15% to 85% Relative humidity (non-condensing)

Electrical

Input Voltage to PCB	Via host Universal Expander
Operational Current Min.	40mA (Not including detector power)
Total available current for detectors	To be included within the constraints of the host Universal Expander

Inputs

Zone Inputs	16
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24 Auxiliary Expander Board

The 24 Auxiliary Expander Board provides 24 more open-collector auxiliary outputs plus additional power supply connectors for external devices that might need them. Designed for installation within the same enclosure as its host Universal Expander, the expander is connected using a supplied ribbon cable.

Features:

- 24 open-collector outputs, each capable of switching 100mA
- Quick and easy installation
- Cost effective Auxiliary expansion option

SPECIFICATIONS

Physical

PCB Dimensions	180(L) x 68(W) x 15(D) (mm)
Installation Environment	0° – 40°C @ 15% to 85% Relative humidity (non-condensing)

Electrical

Power Supply Input	Via host Universal Expander
Operational Current Min.	40mA

Outputs

Outputs (open collector)	24
Max. switchable current per output	100mA
Max. combined output current	To be included within the constraints of the host Universal Expander

Lift Interface Board

The optional Lift Interface board enables extensive control and monitoring of lift car operation and floor access. Up to 32 floors may be controlled and monitored per Universal Expander using up to four optional Lift Interface boards and a Lift Interface Extension Cable (605020).

Each Lift Interface board has 8 opto-isolated zone inputs and 8 relay outputs to provide the facility to connect to lift control systems. Button feedback can be enabled where required. This feature ensures that only one button can be pressed per valid card read. Additionally, Concept 4000 provides the means for different sets of floor buttons to be made available depending on the user attempting to access the lift buttons.

Features:

- Each Control Module will secure up to 64 floors and 16 lift cars. Custom configurations will allow 32 lift cars. For larger applications, use multiple Control Modules linked using Insight software
- Lift access readers are interfaced using standard Concept 4000 Door Access Modules
- Button feedback supported. Logs user and selected floor.

SPECIFICATIONS

Physical

PCB Dimensions	180(L) x 68(W) x 20(D) (mm)
Installation Environment	0° – 40°C @ 15% to 85% Relative humidity (non-condensing)

Electrical

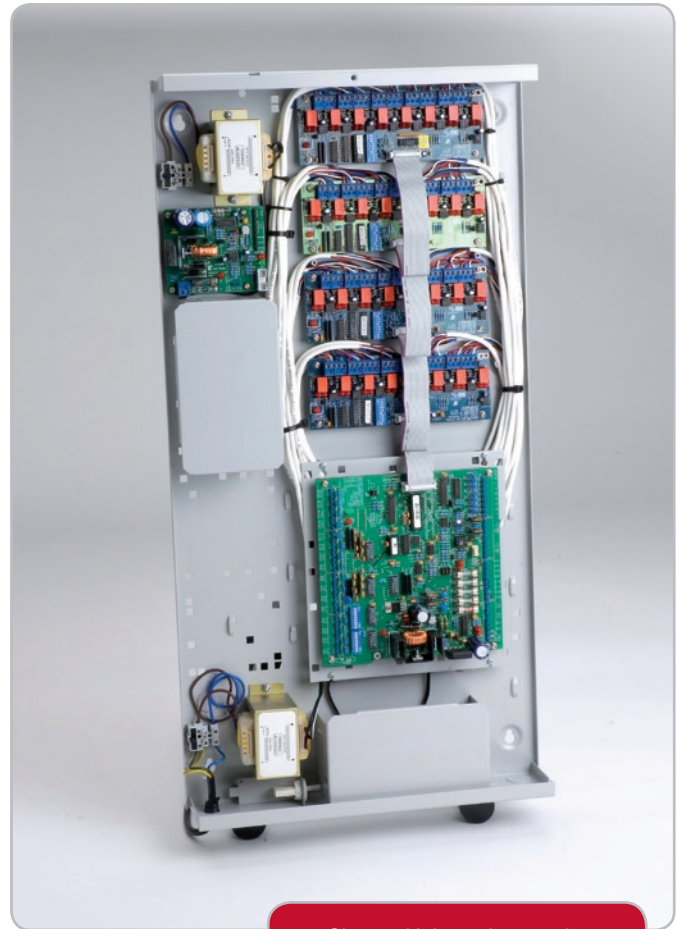
Input Voltage to PCB	Via host Universal Expander
Operational Current	Min.: 45mA (No relays active) Max: 170mA (All relays active)

Inputs

Zone Inputs	8 (Special opto-isolated button sense inputs)
Button input voltage	994020: 16-48VDC full wave rectified, non regulated. 994020HV: 60-120VDC full wave rectified, non regulated.

Outputs

Relay outputs	8
Max. switchable current per relay.	994020: 500mA @ 48V DC or 48VAC RMS 994020HV: 200mA @ 150V DC or 150VAC RMS (30W/62.5VA)
Max. combined output current	To be included within the constraints of the host Universal Expander



Shown: Universal expander fitted with 4 Lift interface boards mounted into an extra large powered low profile enclosure. With this configuration, it is possible to service 32 floors.

Ordering options

995006

16 Zone Expander Board for Universal Expander with surge protection



995007

24 Auxiliary Expander Board for Universal Expander with surge protection



994020

Lift Interface Board for Universal Expander
994020HV
High Voltage Lift Interface Board for Universal Expander



995082E

8 Relay Expander Board Expander Module Version



995019

Relay Extension Cable

