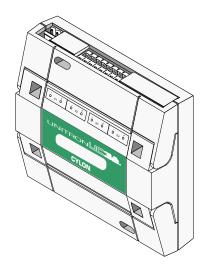
The UC32R/L4 is an external relay pack with 4 pairs of relays, which can be used in Raise/Lower or Binary mode.



- Raise/Lower mode
 with safe interlock for motor protection
- Binary mode
 converts 4 analog inputs to 8 digital outputs
- 8 Relays can switch Inductive Loads up to 5A @ 250V AC or 5A @ 30V DC
- 8 Relays can switch Resistive Loads up to 10A @250V AC or 10A @ 30V DC

The UC32R/L4 controller is part of the UnitronUC32 range of products, which offers the following benefits:

Unique Flexibility with UniPuts™

The UnitronUC32 range uniquely presents UniPuts™ - a revolutionary answer to flexible point configuration, offering maximised utilisation of controller capacity along with flexibility in strategy changes. Built on a modern webbased architecture, the UnitronUC32 range has a wide application scope with the flexibility of being stand-alone or network enabled.

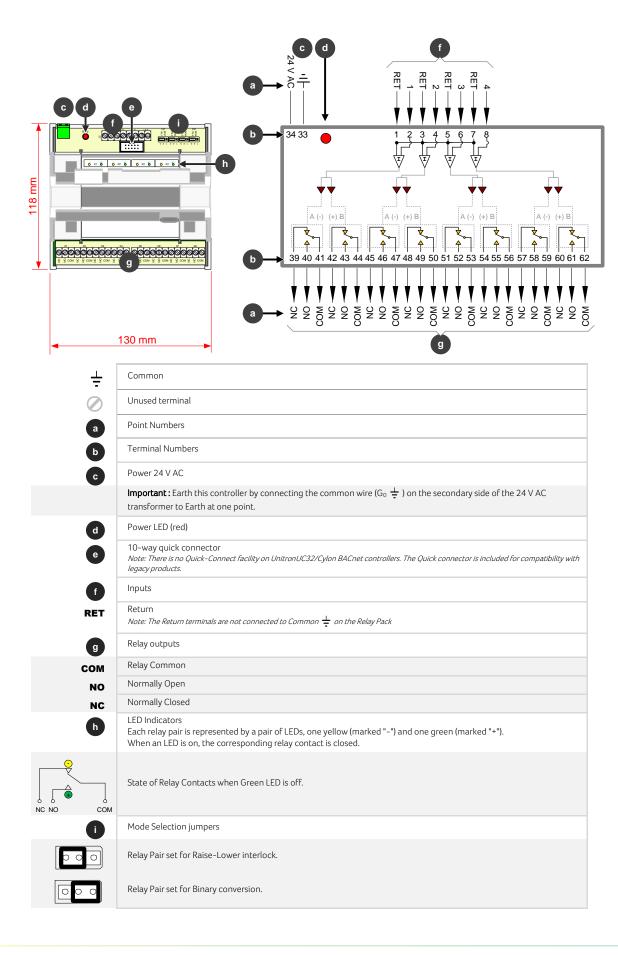
Cost Effective, low entry point for building control

The UnitronUC32 range offers reduced costs in terms of training, implementation, rollout and maintenance. Modular, extendible packages along with low installation costs mean a low entry point for building control. The future-proof UnitronUC32 range provides forward & backward compatibility, meaning an effortless upgrade path for existing Unitron Systems.

Highly programmable and extendable through web-enabled HVAC technology

The **UnitronUC32** range offers an advanced web-based 32-bit architecture, with advanced programmability through the **Cylon Engineering Centre**. Inbuilt diagnostics, along with expanded data logging and strategy storage, is further enhanced by **Uniputs**TM, offering up to 8 Universal inputs, up to 8 **Uniputs**TM (AI/DI/AO/DO) and up to 8 **Uniputs**TM with relays.







Specifications:

MECHANICAL

Size	145 x 130 x 45 mm		
(excluding terminal plugs)	(5.7 × 5.12 × 1.78")		
Enclosure	Injection moulded ABS		
Mounting	DIN rail		

ENVIRONMENT

Note: This equipment is intended for field installation within another enclosure.

Ambient Temperature	0° - 50°C (32°-122°F) ambient.			
Ambient Humidity	0% - 90% RH non-condensing			
EMC Immunity	EN 50082-1			
EMC Emission	EN 55011 Class B			

WIRING

Note: Use Copper or Copper Clad Aluminium conductors only.

Termination	I/O : PCB mounted screw terminal connections. Power: PCB mounted plug terminal connections.
Conductor Area	Max: AWG 12 (3.09 mm²) Min: AWG 22 (0.355 mm²)

ELECTRICAL

Supply Requirements	24 V AC +/- 20% 50/60 Hz
Transformer Rating	8VA

INPUTS/OUTPUTS

8 Inputs
Current: 6mA @ 10V DC each input
Voltage: 0 to 10V DC input only
Return: The Return wire is common to all inputs

8 Relay Contacts Inductive Load: 5A @ 250V AC

or 5A @ 30V DC

Resistive Load: 10A @250V AC

or 10A @ 30V DC

Normally Open and Normally Closed contacts are available



CONFIGURATION

There are two modes of operation: Raise/Lower and Binary conversion.

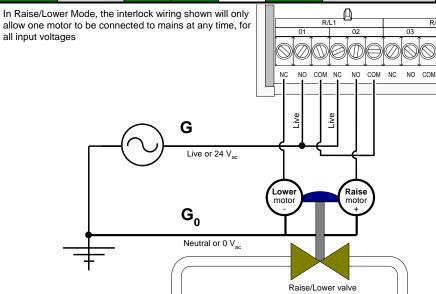
Four links under the terminal cover allow mode selection for each pair of relays.

Any combination of Raise/Lower or Binary Mode outputs possible, e.g. 1 R/L and 3 Binary Mode outputs.

Each RL/4 input allows two relays to be controlled by one UC controller output

Raise/Lower Interlock Mode

Red LED (24 Vac supply)	Input	Relay A (-)	Relay B (+)	Yellow LED (-)	Green LED (+)	Contact Status
Off	Don't Care	Off	Off	Off	Off	Lower motor powered
On	0 V	Off	Off	On	Off	Lower motor powered
On	5 V	On	Off	Off	Off	No power to either motor
On	10 V	On	On	Off	On	Raise motor powered
In Raise/Lower Mode, the interlock wiring shown will only						<u> </u>



Binary Conversion mode

Red LED (24 Vac supply)	Input	Relay A (-)	Relay B (+)	Yellow LED (-)	Green LED (+)
Off	Don't Care	Off	Off	Off	Off
On	0 V	Off	Off	Off	Off
On	4 V	On	Off	On	Off
On	7 V	On	On	On	On
On	10 V	Off	On	Off	On

