CLIPSAL®

INTEGRATED SYSTEMS

Redefining the boundaries of technology

C-Bus

Product Overview
Catalogue

CLIPSAL

C-Bus Control and Management System

clipsal.com/cis

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C-Bus Input Units
Switches

Neo® C-Bus Switches

- Architecturally designed, modular
  C-Bus switches

- Available in two distinct styles (square and rectangular)

- Optional rocker cover with ID window for labelling of switches
  (ordered separately)

- Backlight for ID windows

- 2, 4 or 8 keys per plate

- Integral infrared receiving window

- Programmed via C-Bus installation software or via the learn
  mode features

- Programmed as dimmers, timers, on/off toggle switches and
  scene switches (up to 4 scenes per unit)

- Selectable blue and orange LEDs configured through C-Bus
  Installation Software

- Grey and Silver Neo® is available as standard in White
  Electric (WE), Cream (CM), Desert Sand (DS), Soft Grey
  (SG), Black (BK) and Brown (BR)

- Night-light feature

- Rectangular versions use standard Australian mounting
  brackets and wall boxes. Square version requires brackets /
  wall boxes as shown

- Units draw 22mA from a C-Bus network

- C-Bus Learn Enabled

Neo® - square series

E5052NL
Key input 2 gang,
learn enabled

E5054NL
Key input 4 gang,
learn enabled

E5058NL
Key input 8 gang,
learn enabled

See page 36 for Neo® colour options.

Neo® - rectangular series

Neo® - accessories

5052NL
Key input 2 gang,
learn enabled

E5050MF
Wall bracket for square series

5054NL
Key input 4 gang,
learn enabled

E157
Wall box for square series

5058NL
Key input 8 gang,
learn enabled

5038TX
Neo® credit card size, hand-held
infrared remote control, for
Neo® switches

5052NRI
Neo® rocker cover with
ID window (pack of 10)

See page 36 for Neo® colour options.

C-Bus Input Units
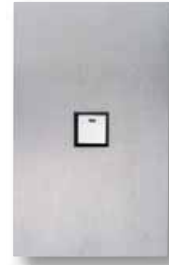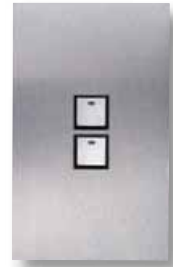## Switches

Reflection C-Bus Switches

- Architectural, flat stainless steel C-Bus switches

- No visible screws

- 1, 2, 3, 4, 6 or 8 keys per plate

- Available in brushed stainless steel

- Each switch has an associated blue LED indicator providing feedback status

- Programmed as dimmers, timers, on/off toggle switches and scene switches (up to 4 scenes per unit)

- Programmed via C-Bus installation software or via the learn mode features

- A custom wall box is required to mount this switch, standard wall brackets and boxes can not be used

- Units draw 22mA from a C-Bus network

- C-Bus Learn Enabled

Reflection

R5061NL
Key input 1 gang,
learn enabled

R5062VNL
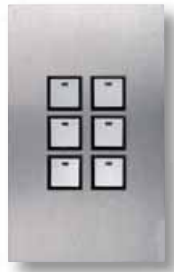Key input 2 gang,
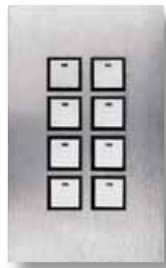learn enabled

R5063NL
Key input 3 gang,
learn enabled

R5064VNL
Key input 4 gang,
learn enabled

R5066NL
Key input 6 gang,
learn enabled

R5068NL
Key input 8 gang,
learn enabled

Reflection - accessories

R5060WB
Wallbox to suit Reflection
range of key inputs

Note: This wall box <u>must</u> be used
to install Reflection key input units

2000 Series

5031NL
Key input 1 gang, learn enabled

5032NL
Key input 2 gang, learn enabled

5034NL
Key input 4 gang, learn enabled

5031NL

• May be programmed as dimmers, timers and
  on/off toggle switches

• 1, 2 or 4 keys per plate

• Each unit features a programmable status indicator

• Available in a wide range of colours
  (See page 37 for colour options)

• Units draw 18mA from a C-Bus network

• C-Bus Learn Enabled

Classic C2000 Series

C5031NL
Key input 1 gang, learn enabled

C5032NL
Key input 2 gang, learn enabled

C5034NL
Key input 4 gang, learn enabled

C5031NL

• May be programmed as dimmers, timers and
  on/off toggle switches

• 1, 2 or 4 keys per plate

• Each unit features a programmable status indicator

• Available in a wide range of colours
  (See page 37 for colour options)

• Units draw 18mA from a C-Bus network

• C-Bus Learn Enabled

C-Bus Input Units
Switches

Slimline SC2000 Series

SC5031NL
Key input 1 gang, learn enabled

SC5032NL
Key input 2 gang, learn enabled

SC5034NL
Key input 4 gang, learn enabled

SC5031NL

- May be programmed as dimmers, timers and on/off toggle switches

- 1, 2 or 4 keys per plate

- Each unit features a programmable status indicator

- Available in a wide range of colours
  (See page 37 for colour options)

- Units draw 18mA from a C-Bus network

- C-Bus Learn Enabled

Eclipse SL2000 Series

SL5031NL
Key input 1 gang, learn enabled

SL5032NL
Key input 2 gang, learn enabled

SL5034NL
Key input 4 gang, learn enabled

SL5031NL

- May be programmed as dimmers, timers and on/off toggle switches

- 1, 2 or 4 keys per plate

- Each unit features a programmable status indicator

- Available in a wide range of colours
  (See page 37 for colour options)

- Units draw 18mA from a C-Bus network

- C-Bus Learn Enabled

Metal Plate and Multi-Gang Switches

- May be programmed as dimmers, timers and on/off toggle switches

- Each unit features a programmable status indicator

- Available in stainless steel and brass finishes

- The key dollies are available in White, Black or Brown

- The B style metal plate range is available in up to 132 gang configuration

- Wall boxes are supplied when ordering 8 gang or higher configurations

- Contact CIS when ordering above 24 gang

- Each 4 gang unit array draws 18mA from a C-Bus network

- C-Bus Learn Enabled

'A' Style Deep Curved Plate
- stainless steel

A5031NL
Key input 1 gang, learn enabled

A5032NL
Key input 2 gang, learn enabled

A5034NL
Key input 4 gang, learn enabled

A5032NL

'B' Style Flat Plate
- stainless steel

B5031NL
Key input 1 gang, learn enabled

B5032NL
Key input 2 gang, learn enabled

B5034NL
Key input 4 gang, learn enabled

B5032NL

'A' Style Deep Curved Plate

- brass

BA5031NL
Key input 1 gang, learn enabled

BA5032NL
Key input 2 gang, learn enabled

BA5034NL
Key input 4 gang, learn enabled

BA5032NL

'B' Style Flat Plate

- brass

BB5031NL
Key input 1 gang, learn enabled

BB5032NL
Key input 2 gang, learn enabled

BB5034NL
Key input 4 gang, learn enabled

BB5032NL

'B' Style Stainless Steel Flat Plate

5008S164/3L
Key input 8 gang, learn enabled

5012S164/4L
Key input 12 gang, learn enabled

5016S164/6L
Key input 16 gang, learn enabled - horizontal

5024S162/4L

5016S162/3L
Key input 16 gang, learn enabled - vertical

5020S164/7L
Key input 20 gang, learn enabled

5024S164/8L
Key input 24 gang, learn enabled - horizontal

5024S162/4L
Key input 24 gang, learn enabled - vertical

5024S163/3L
Key input 24 gang, learn enabled - vertical

'B' Style Brass Flat Plate

5008B164/3L
Key input 8 gang, learn enabled

5012B164/4L
Key input 12 gang, learn enabled

5016B164/6L
Key input 16 gang, learn enabled - horizontal

5024B1162/4L

5016B162/3L
Key input 16 gang, learn enabled - vertical

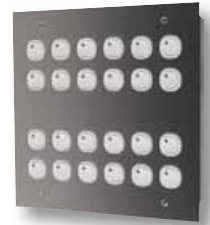**5020B164/7L**
Key input 20 gang, learn enabled

5024B164/8L
Key input 24 gang, learn enabled - horizontal

5024B162/4L
Key input 24 gang, learn enabled - vertical

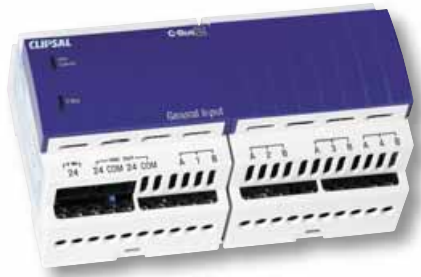**5024B163/3L**
Key input 24 gang, learn enabled - vertical

C-Bus Input Units
General Input Units

General Analogue/Digital Input Unit

5504GI
General input unit, 4 channel

- Four channel general input unit, DIN rail mounted

- 8M DIN Modules Wide

- Dimensions 144mm x 85mm x 65mm

- Used to interface a C-Bus system to third party products such as light level sensors, current sensors, temperature sensors, CO_2 detectors, differential sensors, pressure sensors, flow rate sensors, moisture probes etc

- Designed to either trigger the state of a C-Bus group address as a function of input level or broadcast a message on the C-Bus network, representing the input level

- Maximum of 10 units on a single C-Bus Network

- Can be used to measure analogue values (0-1V, 0-5V, 0-10V, 0-20V, 0-20mA, 4-20mA, 500 Ohm, 1k Ohm, 3k Ohm and 10k Ohm thermistor inputs)

- Requires a 24V dc connection (power pack included)

- Units draw 18mA from a C-Bus network

Bus Coupler Input Unit

5104BCL
Bus coupler input unit, 4 channel, learn enabled

- Used to interface up to four standard voltage free mechanical switches, including latching and toggle switches, to C-Bus

- Dimensions 55mm x 49mm x 18mm

- The unit is designed to fit into a standard wall box

- Each unit features a programmable status indicator

- The maximum distance between the unit and an external voltage free switch is limited to 1 metre (use L5504AUX if longer distance required)

- Units draw 18mA from a C-Bus network

- C-Bus Learn Enabled

DIN Rail Mounted
Auxiliary Input Unit

L5504AUX
Auxiliary input module,
4 channel, learn enabled

- Four channel auxiliary input module, DIN rail mounted

- 4M DIN Modules Wide

- Dimensions 72mm x 85mm x 65mm

- Permits voltage free switches to be connected to C-Bus, such as Clipsal 30 Series mechanisms, limit switches and weatherproof switches

- Each unit features a programmable status indicator

- The unit may be programmed in the same way as a Key Input Unit, to achieve the same functions such as timer, dimmer or toggle switches

- Units draw 18mA from a C-Bus network

- C-Bus Learn Enabled

Light Level Sensor

5031PE
Light level sensor, 40 - 1600lux

- Used to measure and regulate lighting in the range of 40 - 1600lux

- Programmable target light level as well as the margin on installation

- Each unit features a programmable status indicator

- Can be used to achieve bank switching or continuous dimming

- Units draw 18mA from a C-Bus Network

Temperature Sensor

5031TS
Temperature sensor,
0 - 50 degrees centigrade

- Used to measure and regulate either heating or cooling in the range 0 - 50 degrees centigrade

- Programmable target temperature and margin on installation

- Programmable set back temperature for when the room is unoccupied, to realise energy savings

- Units draw 18mA from a C-Bus network

C-Bus Input Units
General Input Units

Infra-red Receivers

- Wall mounted IR receiver incorporating 4 stations of IR receivers

- Available with or without 4 C-Bus keys

- May be programmed to achieve functions such as a dimmer, timer or toggle switch

- Units draw 18mA from a C-Bus network

- C-Bus Learn Enabled

2000 Series

5031NIRL
4 channel infra-red receiver, learn enabled

5034NIRL
4 channel infra-red receiver with 4 keys, learn enabled

Classic C2000 Series

C5031NIRL
4 channel infra-red receiver, learn enabled

C5034NIRL
4 channel infra-red receiver with 4 keys, learn enabled

Slimline SC2000 Series

SC5031NIRL
4 channel infra-red receiver, learn enabled

SC5034NIRL
4 channel infra-red receiver with 4 keys, learn enabled

Eclipse SL2000 Series

Hand-held Infra-red Transmitters

- Work in conjunction with the infra-red receivers

- 4 channel and 12 channel units available

- The 4 channel device controls bank A of the receivers

- The 12 channel device controls banks A, B and C on the infra-red receivers

- Range up to 15 metres

SL5031NIRL
4 channel infra-red receiver, learn enabled

SL5034NIRL
4 channel infra-red receiver with 4 keys, learn enabled

5034TX
4 key hand-held infra-red transmitter

5034TX12
12 key hand-held infra-red transmitter

C-Bus Input Units
Scene Controllers

Scene Controllers, Standard Plate Range

- Allow up to 4 scenes or moods to be set from one switch

- Each time the key is pressed the scene is issued

- Up to 9 turn on/off or 6 ramp commands may be programmed on each key

- Units draw 18mA from a C-Bus network

2000 Series

5034NS
4 channel scene controller

Classic C2000 Series

C5034NS
4 channel scene controller

Slimline SC2000 Series

SC5034NS
4 channel scene controller

Eclipse SL2000 Series

SL5034NS
4 channel scene controller

Scene Master Scene Controllers

- Scene Controller with IR capability features 5 preset buttons

- Dimensions 175mm x 88mm x 23.3mm

- Additional master off button

- Scenes and Master OFF functions accessible from the unit or IR remote control (supplied)

- Facility to set up to 5 scenes on each unit and up to 9 Group Addresses may be associated with each scene

- The unit may be programmed with the C-Bus application software

- Scene may be set from the unit itself via learn enabled features

- Units draw 32mA from a C-Bus network

- C-Bus Learn Enabled

5035NIRSLTR,GB
5 key scene controller with IR, Grey and Silver with smoked transparent cover, learn enabled

5035NIRSL,WE
5 key scene controller with IR, White, learn enabled

5035TX
Remote control to suit Scene Master (spare)

5035NIRSLTR,WE
5 key scene controller with IR, White with smoked transparent cover, learn enabled

C-Bus Input Units
C-Bus Touch Screens

Touch Screens

- Provides a wall mount, touch sensitive LCD screen

- Dimensions 152mm x 115mm x 38mm

- Displays "pages" of graphical items, such as buttons, sliders and images that can perform C-Bus related functions when pressed

- Includes a real time clock for automatic scheduling of events

- Allows control via the infra-red hand-held remote control unit (supplied)

- The unit is programmed via the included Windows™ compatible Touch Screen configuration software

- The unit may be programmed with the C-Bus application software

- Scene may be set from the unit itself via learn enabled features

- Connects to a C-Bus network and is powered from C-Bus

Slimline SC2000 Series

SC5000CT
Touch Screen, monochrome

'B' Style Flat Plate
- stainless steel

BS5000CT
Touch Screen, monochrome

'B' Style Flat Plate
- brass

BB5000CT
Touch Screen, monochrome

Neo® Series
- accessories

5050CTS
Surround only, Neo® style,
for use with touch screen

Passive Infra-red Motion Detectors

5750WPL
Occupancy sensor, infrared,
IP66, outdoor, learn enabled

- PIR motion sensor suitable for outdoor use

- The unit has a field of view of 110 degrees and a detection range which extends 18 metres

- The unit features a light threshold adjustment on the unit

- The time delay is programmable in the range 1 second to 18 hours

- Features a sunset switch program

- Units draw 18mA from a C-Bus network

- C-Bus Learn Enabled

5751L
Occupancy sensor, infra-red, indoor, corner mount, learn enabled

- PIR motion sensor suitable for indoor use

- The unit has a coverage range of 6m x 6m and a field of view of 90 degrees

- The unit features a light threshold adjustment on the unit

- The time delay is programmable in the range 1 second to 18 hours

- Features a Sunset Switch program

- Units draw 18mA from a C-Bus Network

- C-Bus Learn Enabled

5753L
Occupancy sensor,
infra-red, indoor, flush mount,
360 degree, learn enabled

- 360 degree, flush, ceiling mount PIR motion sensor

- PIR motion sensor suitable for indoor use

- The unit has a coverage range of 6m x 6m and a field of view of 90 degrees

- The unit features a light threshold adjustment on the unit

- The time delay is programmable in the range 1 second to 18 hours

- Features a Sunset Switch program

- Units draw 18mA from a C-Bus Network

- C-Bus Learn Enabled

Clock Modules

5031H2TC7
2 channel clock, 7 day,
horizontal mount

5031V2TC7
2 channel clock, 7 day,
vertical mount

- 7 day real time clock module

- Features two channels and up to 42 programmable events

- The units also feature a power backup to hold the clock program in case of loss of the C-Bus power supply

- The unit features a light threshold adjustment on the unit

- Features a sunset switch program

- Units draw 18mA from a C-Bus network

C-Bus Output Units
Dimmer Modules

High Power, Multi Channel Professional Series Dimmers

- Rugged, high quality dimmer units specifically designed for architectural dimming applications

- Dimensions 533mm x 486mm x 163mm

- Leading edge dimmers suitable for incandescent and low voltage lighting

- Feature opto-controlled electronic switching devices with carefully designed chokes

- These chokes provide high rise time along with excellent high frequency noise suppression and low acoustic noise

- Feature "Advanced Phase Control" (APC) switching technique giving greater efficiency resulting in cooler operation and ultimately improved reliability

- Front panel buttons, channel switches, LED indicators and seven-segment display enable the user to monitor and select the built-in functions

- Control from either a DMX-512 source or from C-Bus.

- Units draw 22mA from a C-Bus Network

- C-Bus Learn Enabled

L5112D10B2
12 channel, 10A, 220-240V ac, MCB protection, 200µS rise time, 40-80Hz, with APC technology, learn enabled

L5112D12B2
12 channel, 12A, 220-240V ac, MCB protection, 200µS rise time, 40-80Hz, with APC technology, learn enabled

L5112D16B2
12 channel, 16A, 220-240V ac, MCB protection, 200µS rise time, 40-80Hz, with APC technology, learn enabled

L5112D10B2S
12 channel, 10A, 220-240V ac, MCB protection, 200µS rise time, 40-80Hz, socket outlets, with APC technology, learn enabled

Professional Series Dimmers

- Leading edge dimmers suitable for incandescent and low voltage lighting

- Dimensions 240mm x 220mm x 75mm

- Feature an emergency lighting output in case of loss of mains power to the unit

- Incorporate a software selectable network burden and C-Bus system clock

- Dimmers incorporate a 60mA power supply

- Up to 30 units may be connected to any C-Bus network

- C-Bus Learn Enabled

L5104D5
4 channel dimmer 250V ac, 5A per channel, 20A total, 60mA inbuilt C-Bus power supply, learn enabled

L5102D10
2 channel dimmer 250V ac, 10A per channel, 20A total, 60mA inbuilt C-Bus power supply, learn enabled

L5101D20
1 channel dimmer 250V ac, 20A per channel, 20A total, 60mA inbuilt C-Bus power supply, learn enabled

C-Bus Output Units
Dimmer Modules

DIN Rail Mounted Dimmer Range

L5508D1A
8 channel dimmer 250V ac, 1A per channel,
inbuilt 200mA C-Bus power supply, learn enabled

• 8 channel dimmer, DIN rail mounted

• 12M DIN Modules Wide

• Dimensions 215mm x 85mm x 65mm

• Features 8 channels of 1A output, suitable for incandescent and low voltage lighting

• Features a software selectable network burden and C-Bus system clock

• A maximum of 10 units may be connected to any C-Bus network

• Features an inbuilt 200mA C-Bus power supply

• C-Bus Learn Enabled

L5508D1AP
8 channel dimmer 250V ac, 1A per channel,
no inbuilt C-Bus power supply, learn enabled

• 8 channel dimmer, DIN rail mounted

• 12M DIN modules wide

• Dimensions 215mm x 85mm x 65mm

• Features 8 channels of 1A output, suitable for incandescent and low voltage lighting

• Features a software selectable network burden and C-Bus system clock

• A maximum of 100 units may be connected to any C-Bus network

• Does not source current to the network

• Draws 18mA from the C-Bus when mains is not connected

• C-Bus Learn Enabled

L5504D2A
4 channel dimmer 250V ac, 2A per channel,
inbuilt 200mA C-Bus power supply, learn enabled

• 4 channel dimmer, DIN rail mounted

• 12M DIN modules wide

• Dimensions 215mm x 85mm x 65mm

• Features 4 channels of 2A output, suitable for incandescent and low voltage lighting

• Features a software selectable network burden and C-Bus system clock

• A maximum of 10 units may be connected to any C-Bus network

• Features a 200mA C-Bus power supply

• C-Bus Learn Enabled

L5504D2AP
4 channel dimmer 250V ac, 2A per channel,
no inbuilt C-Bus power supply, learn enabled

• 4 channel dimmer, DIN rail mounted

• 12M DIN modules wide

• Dimensions 215mm x 85mm x 65mm

• Features 4 channels of 2A output, suitable for incandescent and low voltage lighting

• Features a software selectable network burden and C-Bus system clock

• A maximum of 100 units may be connected to any C-Bus network

• Does not source current to the network

• Draws 18mA from the C-Bus when mains is not connected

• C-Bus Learn Enabled

Standard Dimmer Range

DIN Rail Mounted DSI Gateway Range

5104D750
4 channel dimmer 250V ac,
3A per channel, 12A total

- Dimmer suitable for incandescent and low voltage dimming

- Dimensions 248mm x 150mm x 55mm

- Features 4 channels of 3A output channels

- A maximum of 100 units may be connected to any C-Bus network

- Do not source current to the network

- Draws 18mA from the C-Bus network when mains is not connected

L5508DSI
8 channel dimmer for DSI electronic ballasts 250V ac, inbuilt 200mA C-Bus power supply, learn enabled

- 8 channel dimmer for DSI ballasts, DIN rail mounted

- 12M DIN modules wide

- Dimensions 215mm x 85mm x 65mm

- Provides C-Bus control of electronic DSI digital ballasts

- The module controls up to 100 DSI ballasts per channel

- Up to 10 units may be connected to any C-Bus network

- Used in conjunction with electronic DSI ballasts

- The Dimmer features a 200mA C-Bus power supply

- C-Bus Learn Enabled

L5508DSIP
8 channel dimmer for DSI electronic ballasts 250V ac, no inbuilt C-Bus power supply, learn enabled

- 8 channel dimmer for DSI ballasts, DIN rail mounted

- 12M DIN modules wide

- Dimensions 215mm x 85mm x 65mm

- Provides C-Bus control of electronic DSI digital ballasts

- The module controls up to 100 DSI ballasts per channel

- Up to 100 units may be connected to any C-Bus Network

- Used in conjunction with electronic DSI ballasts

- Units draw 18mA from the C-Bus network when mains is not connected

- C-Bus Learn Enabled

Wall Mounted Infra-red Transmitter Units

- This C-Bus unit transmits IR codes to third party devices

- Capable of broadcasting IR messages through the two IR output channels (consist of 3.5mm mini audio mono sockets)

- Single or dual head emitter leads (ordered separately) should be connected to the output jack

- Programmed via The High Speed Programing Cable (part number 5100HSC, ordered separately, see page 21). Please note a USB or Serial cable cannot be used

- The installer has the facility to modify the stored codes using the Windows based application software (included)

- Stores a library of commonly used IR codes

- The Infrared Controller is based on the standard range of Clipsal 4 gang wall plates

- The standard colours are White Electric, Soft Grey, Desert Sand, Cream, Brown and Black

- Units draw 32mA from the C-Bus network

5034NIRT
2 channel infra-red transmitter unit, 2000 Series wall plate

C5034NIRT
2 channel infra-red transmitter unit, Classic C2000 Series wall plate

SC5034NIRT
2 channel infra-red transmitter unit, Slimline SC2000 Series wall plate

SL5034NIRT
2 channel infra-red transmitter unit, Eclipse SL2000 Series wall plate

Wall Mounted Infra-red Transmitter Units

- accessories

C-Bus Output Units
Analogue Output Modules

DIN Rail Mounted Range

5100HSC
High speed programming cable

2 channel infra-red transmitter unit.

L5504AMP
4 channel analogue output,
0-10V, learn enabled

5100RP
Infra-red code leaning unit

Infra-red code learning unit, complete with Windows based software. Required for learning most third party infra-red codes not included in the code library shipped with the infra-red transmitter unit software.

- Analogue output module, DIN rail mounted

- 4M DIN modules wide

- Requires a 240V ac connection

- Dimensions 72mm x 85mm x 65mm

- Can either source or sink current and is used to drive most types of 0-10V electronic dimmable ballasts

- The unit provides 4 independent output channels

- Powered from C-Bus and requires 18mA at 15 - 36Vdc for correct operation

- The polarity of the signal may be selected so that 0V corresponds to maximum or minimum brightness

- These units draw 18mA from the C-Bus when mains is not connected

- C-Bus Learn Enabled

C-Bus Output Units
Relay Modules

DIN Rail Mounted 10A Relay Modules

L5512RVF
12 channel relay 250V ac, 10A inductive load
per channel, inbuilt 200mA C-Bus power supply

• 12 channel relay module, DIN rail mounted

• 12M DIN modules wide

• Dimensions 215mm x 85mm x 65mm

• Featuring 12 channels of voltage free relay switching

• Rated at 10A incandescent or 10A fluorescent load
per channel

• Incorporates a software selectable network burden and
C-Bus system clock

• A maximum of 10 units may be connected to any
C-Bus network

• Incorporates an inbuilt 200mA C-Bus power supply

• C-Bus Learn Enabled

L5512RVFP
12 channel relay 250V ac, 10A inductive load per
channel, no inbuilt C-Bus power supply, learn enabled

• 12 channel relay module, DIN rail mounted

• 12M DIN modules wide

• Dimensions 215mm x 85mm x 65mm

• Featuring 12 channels of voltage free relay switching

• Rated at 10A incandescent or 10A fluorescent load per
channel

• Incorporates a software selectable network burden and
C-Bus system clock

• A maximum of 100 units may be connected to any
C-Bus network

• These units draw 18mA from C-Bus network when mains
is not connected

• C-Bus Learn Enabled

L5504RVF
4 channel relay 250V ac, 10A inductive load per channel, inbuilt 200mA C-Bus power supply, learn enabled

- 4 channel relay module, DIN rail mounted

- 8M DIN modules wide

- Dimensions 144mm x 85mm x 65mm

- Featuring 4 channels of voltage free relay switching

- Rated at 10A incandescent or 10A fluorescent load per channel

- Incorporates a software selectable network burden and C-Bus system clock

- A maximum of 10 units may be connected to any C-Bus network

- Incorporates an inbuilt 200mA C-Bus power supply

- C-Bus Learn Enabled

L5504RVFP
4 channel relay 250V ac, 10A inductive load per channel, no inbuilt C-Bus power supply, learn enabled

- 4 channel relay module, DIN rail mounted

- 8M DIN modules wide

- Dimensions 144mm x 85mm x 65mm

- Featuring 4 channels of voltage free relay switching

- Rated at 10A incandescent or 10A fluorescent load per channel

- Incorporates a software selectable network burden and C-Bus system clock

- A maximum of 10 units may be connected to any C-Bus network

- These units draw 18mA from C-Bus when mains is not connected

- C-Bus Learn Enabled

C-Bus Output Units
Relay Modules

DIN Rail Mounted Changeover Relay Modules

L5504RVFCP
4 channel changeover relay, 250V ac, no inbuilt C-Bus power supply, learn enabled

L5504RVFC
4 channel changeover relay, 250V ac, learn enabled, inbuilt 200mA C-Bus power supply, learn enabled

- 4 channel changeover relay modules with interlock features, DIN rail mounted

- 8M DIN modules wide

- Dimensions 144mm x 85mm x 65mm

- Used for control of air conditioning systems (on/off, low, medium and high) and shutter or blind control (up/down)

- The unit can be simply wired to achieve electrical interlocking, for use where outputs are all mutually exclusive

- Relays rated at 10A resistive, 5A incandescent/inductive, 1A fluorescent

- Incorporates a software selectable network burden and C-Bus system clock

- A maximum of 100 units may be connected to any C-Bus network

- These units draw 18mA from C-Bus when mains is not connected

- C-Bus Learn Enabled

DIN Rail Mounted 20A Relay Modules

L5504RVF20
4 channel relay, 250V ac, 20A inductive load per channel, inbuilt 200mA C-Bus power supply, learn enabled

- 4 channel 20A relay module, DIN rail mounted

- 12M DIN modules wide

- Dimensions 215mm x 85mm x 65mm

- 4 channels of voltage free relay switching

- Rated at 20A incandescent, 20A HID or 20A fluorescent load per channel

- Relays features magnetic latching

- Built in mechanical level for manual changeover of relay state

- Incorporates a software selectable network burden and C-Bus system clock

- A maximum of 10 units may be connected to any C-Bus Network

- Incorporates an inbuilt 200mA C-Bus power supply

- C-Bus Learn Enabled

L5504RVF20P
4 channel relay, 250V ac, 20A inductive load per channel, no inbuilt C-Bus power supply, learn enabled

- 4 channel 20A relay module, DIN rail mounted

- 12M DIN modules wide

- Dimensions 215mm x 85mm x 65mm

- 4 channels of voltage free relay switching

- Rated at 20A incandescent, 20A HID or 20A fluorescent load per channel

- Relays feature magnetic latching

- Built in mechanical level for manual changeover of relay state

- Incorporates a software selectable network burden and C-Bus system clock

- A maximum of 100 units may be connected to any C-Bus network

- Units draw 18mA from the C-Bus when mains is not connected

- C-Bus Learn Enabled

5504RDP
4 channel relay driver 250V ac, no inbuilt C-Bus power supply. Note: output control relays must be purchased separately (see page 26)

- 4 channel relay driver, DIN rail mounted

- 8M DIN modules wide

- Dimensions 144mm x 85mm x 65mm

- Features 4 channels capable of driving the coils of up to four external 20A relays (one per channel)

- Does not directly control a mains output load and must be used with Cat Numbers 5000RL20 or 5002RL20 (see page 26)

- Incorporates a software selectable network burden and C-Bus system clock

- A maximum of 100 units may be connected to any C-Bus network

- Units draw 18mA from the C-Bus when mains is not connected

C-Bus Output Units
Relay Modules

5000RL20
Single relay 250V ac, 20A inductive load.
Note: Must be used in conjunction with Catalogue Numbers L5504RD or L5504RDP (see page 25)

- Heavy duty 20A mechanically latched relay, DIN rail mounted

- Approx. 1.5M DIN modules wide

- Dimensions 96mm x 24.5mm x 60mm

- Suitable for controlling up to 20A of incandescent, HID or fluorescent loads

- Rated at 20A incandescent, 20A HID or 20A fluorescent load per channel

- Relays feature mechanical latching

- Built in mechanical level for manual changeover of relay state

- Incorporates an auxiliary output contact and a mechanical on/off override for manual operation

- Must be used in conjunction with the Cat Numbers 5504RD or 5504RDP relay driver products

5002RL20
Dual relay 250V ac, 20A inductive load per relay.
Note: Must be used in conjunction with Cat Numbers L5504RD or L5504RDP (see page 25)

- 2 x 20A magnetically latching relay module, DIN rail mounted

- 4M DIN modules wide

- Dimensions 72mm x 85mm x 65mm

- Must be used in conjunction with the C-Bus 5504RD or 5504RDP relay driver products

- Compatible with 20A incandescent, inductive or fluorescent loads

- Must be used in conjunction with the Cat Numbers 5504RD or 5504RDP relay driver products

- Incorporates mechanical overrides accessible by the user

- The mechanical lever is labelled with ON and OFF to indicate relay status

Standard Relay Modules

5101R
1 channel relay 250V ac
10A inductive load

• Single C-Bus relay unit

• Dimensions 198mm x 42mm x 39mm

• Featuring 1 channel of 240V ac switching

• Suitable for incandescent, inductive and fluorescent switching up to a maximum load of 10A

• A maximum of 100 units may be connected to any C-Bus network

• These relays do not draw any current from C-Bus network when mains power is connected

5102RVF
2 channel voltage free relay 250 V ac,
10A inductive per channel

• 2 channel C-Bus relay unit

• Dimensions 198mm x 42mm x 39mm

• Featuring 2 channels of 240V ac switching

• Suitable for incandescent, inductive and fluorescent switching up to a maximum load of 10A per channel

• A maximum of 100 units may be connected to any C-Bus network

• These relays do not draw any current from C-Bus network when mains power is connected

5101RC
1 channel relay 250V ac 10A inductive load, complete with 3 pin mains, flex and plug and C-Bus lead with pre-terminated RJ45 connector

• Single C-Bus relay unit

• Dimensions 248mm x 42mm x 39mm

• Featuring 1 channel of 240V ac switching

• Suitable for incandescent, inductive and fluorescent switching up to a maximum load of 10A

• Complete with 3 pin mains, flex and plug and C-Bus lead with pre-terminated RJ45 connector

• A maximum of 100 units may be connected to any C-Bus Network

• These relays do not draw any current from C-Bus network when mains power is connected

C-Bus System Support Units

Telephone Interface

5100TAU
Telephone Interface

- Offers a dial in and dial out facility, permitting control and status monitoring for a C-Bus system via any touchtone phone

- Dimensions 146mm x 146mm x 30mm

- It also includes an audio output, so that C-Bus events can be audibly announced

- Programmed using a connection to a PC running the C-Bus telephone interface configuration software

- The unit can also act as a C-Bus PC interface

- Allows C-Bus to be programmed and configured either locally or from a remote site using a data modem
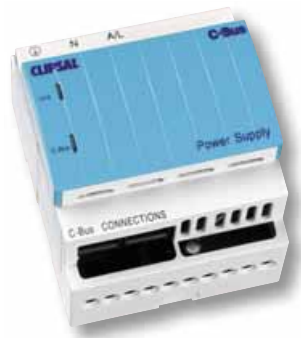
DALI Gateway

5502DAL
DALI gateway

- DALI gateway, DIN rail mounted

- 4M DIN modules wide

- Dimensions 72mm x 85mm x 65mm

- Supports DALI lamp and ballast failure information to be available on the C-Bus network

- Capable of controlling up to two DALI networks

- The unit supports DALI group addresses, short addresses and scenes the DALI global (broadcast) address

- A remote switch input is included to turn all DALI output channels to the ON or OFF states, irrespective of the current state of the C-Bus, including no C-Bus

- Incorporates the C-Bus clock signal and a network burden

- Up to 50 DALI gateways can be connected to a single C-Bus network

- Units Draw 32mA from a C-Bus network

C-Bus Power Supply

5500PS
Power supply, 350mA

- C-Bus power supply, DIN rail mounted

- 4M DIN modules wide

- Dimensions 72mm x 85mm x 65mm

- Supplies 350mA at 18-36V dc to the network

- Each power supply supports approximately 18 standard C-Bus units

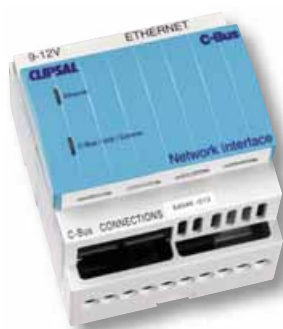- Up to 5 power supplies may be used on any single C-Bus network

PC Interface

5500PC
PC interface

- C-Bus PC interface, DIN rail mounted

- 4M DIN modules wide

- Dimensions 72mm x 85mm x 65mm

- Features two connections to C-Bus (2 x RJ45 sockets)

- Features three connections to RS232 (2 x RJ45 and 1 x DB9 sockets)

- Units Draw 32mA from a C-Bus network

C-Bus System Support Units

C-Bus Ethernet Network Interface

5500CN
C-Bus Ethernet
network interface

- C-Bus Ethernet network interface, DIN rail mounted

- 4M DIN modules wide

- Dimensions 72mm x 85mm x 65mm

- Provides a two-way C-Bus to Ethernet network interface

- Allows C-Bus commands to be distributed via a 10 Base-T Ethernet (TCP/IP) network

- Features 2 x C-Bus RJ45 connections and 1 x Ethernet RJ45 connection

- The unit requires an external 9-12V dc power pack (supplied)

Network Bridge

5500NB
Network bridge

- C-Bus network bridge, DIN rail mounted

- Based on a 4M DIN module

- Dimensions 72mm x 85mm x 65mm

- Provides a two-way C-Bus to Ethernet network interface

- Units Draw 18mA from a C-Bus network

Network Analyser

5100NA
C-Bus network analyser

- The network analyser is a tool used to measure various C-Bus system parameters:

  - Power Available
  - Clock Signal Present
  - Excess Voltage
  - Add/Remove Burden
  - Excess Cable Indication

- Dimensions 60.5mm x 120mm x 30.3mm

- Measures capacitance, burden, clock signal and network voltage

- The network analyser is powered from C-Bus and is supplied with a pair of leads

C-Bus Cable

5005C305B
C-Bus Category 5, 4 pair,
UTP cable, 305 metres

- 4 pair, Category 5, unshielded cable with a unique outer colour sheath specifically designed for the C-Bus system

- A maximum of 1000 metres of cable is permitted on any one C-Bus network

- Two pairs are used for the C-Bus connection C-Bus positive (blue + orange) and C-Bus negative (blue/white + orange/white)

- The C-Bus cable must be segregated from the mains cable in C-Bus installations

- C-Bus cable has a mains rated outer sheath and Standard Cat 5 cable does not have this rating

- Suitable for use inside electrical enclosures

C-Bus Software

Installation Software and Manuals

The installation software is used to program each C-Bus unit and to commission the C-Bus installation. The manuals detail the rules and guidelines for planning, programming and commissioning the C-Bus system. The installer must follow the guidelines as depicted in the manuals, otherwise the warranty on the installation may be void. Software upgrades are available from the internet.

5000S/2
C-Bus installation software and technical manuals

5000M/2
C-Bus technical manuals

Schedule Plus Software and Manuals

Schedule Plus application software provides a powerful and easy use interface to C-Bus via a standard PC. Schedule Plus has been developed specifically for commercial and industrial applications. It provides scheduling, manual control and monitoring of a C-Bus system from a PC running Windows 95, 98, 2000, NT, ME or XP.

5000SP
Schedule Plus application software and technical manuals, single network licence

5000SP5
Schedule Plus application software and technical manuals, five network licence

5000SPUNL
Schedule Plus application software and technical manuals, unlimited network licence

HomeGate Software and Manuals

The HomeGate application software provides a powerful but simple to use interface to C-Bus via a standard PC. HomeGate provides scheduling, manual control and monitoring of a domestic C-Bus system from a PC running Windows 95, 98, 2000, NT, ME or XP. HomeGate comprises of a project editor, real time monitoring and control, a real time scheduler, security and access control and internet access. It also includes help and support documentation.

5000HG
HomeGate application software and technical manuals, single network licence

5000HG5
HomeGate application software and technical manuals, five network licence

HomeSpeak Software

Clipsal HomeSpeak software, in combination with the Clipsal C-Bus Control and Management System allows control of lighting and other services in your home by speech and text input, using common phrases and sentences. HomeSpeak is available for sale to approved Systems Integrators only.

5000HS
HomeSpeak software package, complete with hard wired headset microphone

C-Gate Software
and Manuals

The Clipsal C-Gate server is a software suite that monitors and controls the C-Bus Control and Management System. It has been produced by Clipsal Integrated Systems to allow third party software developers and existing Building Management Systems to interface to C-Bus at a high level, allowing high-speed control and monitoring of C-Bus. C-Gate is available for sale to approved Systems Integrators only.

5000CG
C-Gate software package, single C-Bus network licence

5000CG5
C-Gate software package, 5 C-Bus network licence

5000CG10
C-Gate software package, 10 C-Bus network licence

5000CG50
C-Gate software package, 50 C-Bus network licence

C-Lution Software
and Manuals

C-Lution provides a complete solution for real time control and monitoring of Clipsal C-Bus using clear and concise graphic images.

It provides a software platform on which a customisable, graphical Windows interface to a C-Bus system can be built. Sophisticated animations can be created to display the operating status of the electrical services.

The package includes a driver library to interface with proprietary equipment such as Building Management Systems, PLCs, etc.

The Clipsal C-Lution environment is primarily based on a Client/Server architecture, operable through TCP/IP network connections. C-Lution is available for sale to approved Systems Integrators only.

5000CL
C-Lution software package, single C-Bus network licence

5000CL5
C-Lution software package, five C-Bus network licence

5000CL10
C-Lution software package, ten C-Bus network licence
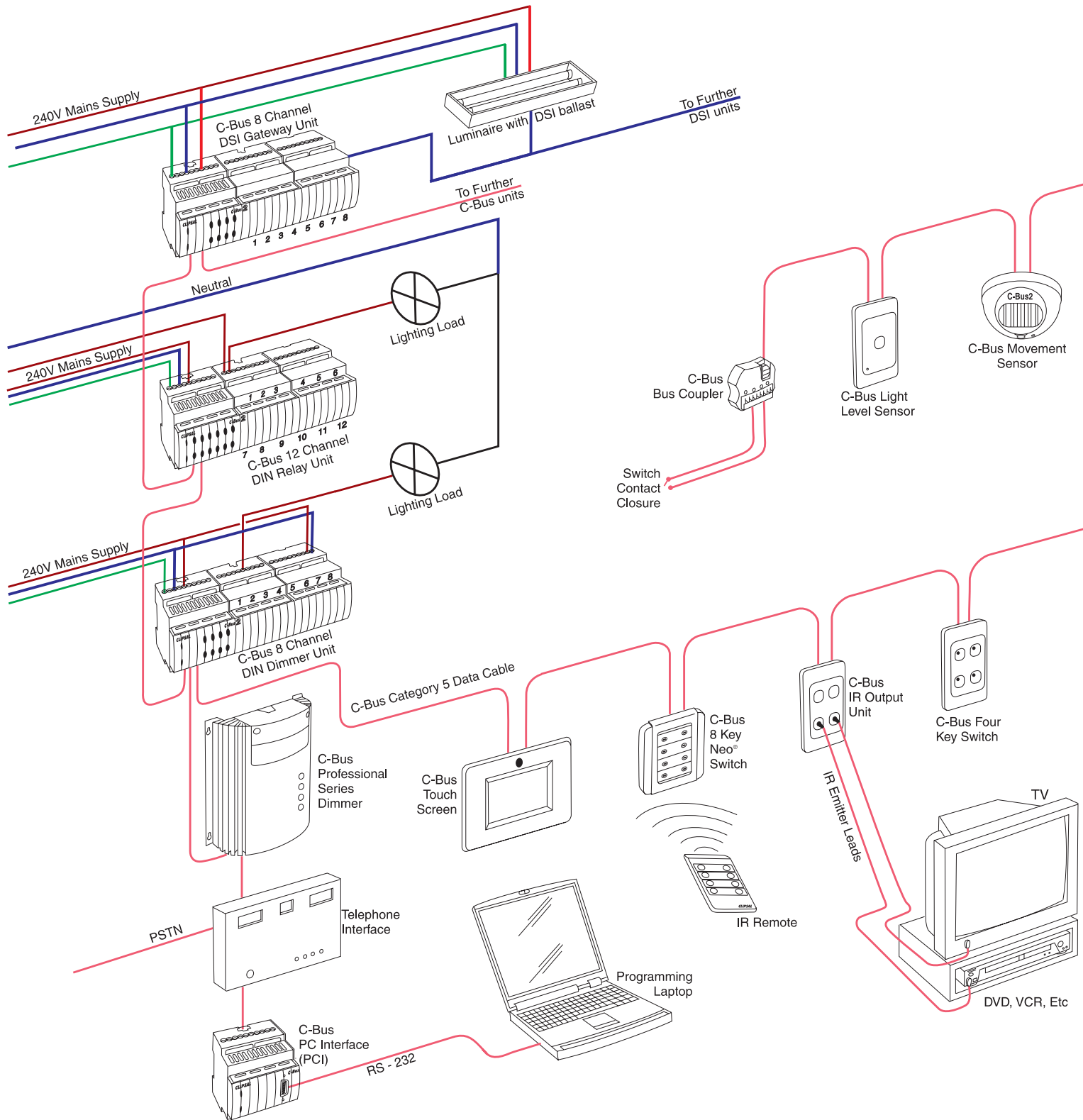
5000CL50
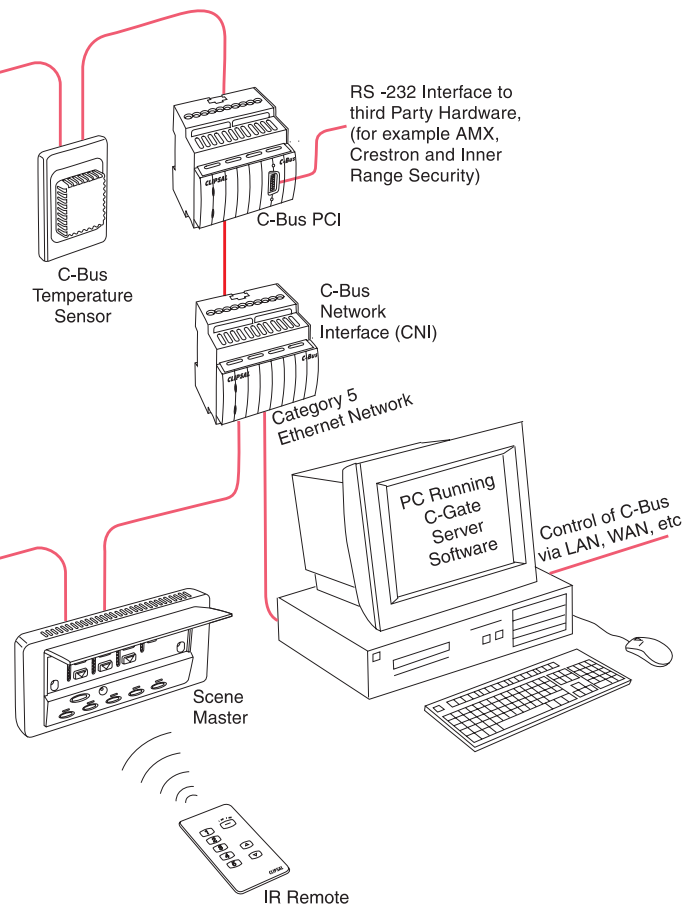C-Lution software package, fifty C-Bus network licence

5000CLUNL
C-Lution software package, unlimited C-Bus network licence

Typical C-Bus
Network Connections

240V Mains Supply

C-Bus 8 Channel
DSI Gateway Unit

1 2 3 4 5 6 7 8

Luminaire with DSI ballast

To Further
DSI units

To Further
C-Bus units

Neutral

240V Mains Supply

Lighting Load

1 2 3

4 5 6

7 8 9 10 11 12

C-Bus 12 Channel
DIN Relay Unit

Lighting Load

240V Mains Supply

1 2 3 4 5 6 7 8

C-Bus 8 Channel
DIN Dimmer Unit

C-Bus
Bus Coupler

C-Bus Light
Level Sensor

C-Bus2

C-Bus Movement
Sensor

Switch
Contact
Closure

C-Bus Category 5 Data Cable

C-Bus
Professional
Series
Dimmer

C-Bus
Touch
Screen

C-Bus
8 Key
Neo®
Switch

C-Bus
IR Output
Unit

C-Bus Four
Key Switch

IR Emitter Leads

TV

IR Remote

PSTN

Telephone
Interface

Programming
Laptop

DVD, VCR, Etc

C-Bus
PC Interface
(PCI)

RS - 232

34

RS -232 Interface to third Party Hardware, (for example AMX, Crestron and Inner Range Security)

C-Bus PCI

C-Bus Temperature Sensor

C-Bus Network Interface (CNI)

Category 5 Ethernet Network

PC Running C-Gate Server Software

Control of C-Bus via LAN, WAN, etc

Scene Master

IR Remote

C-Bus Network Design Considerations

• Up to 1000m of C-Bus Cat 5 UTP cable may be connected to a single C-Bus network.

• Up to 100 C-Bus units may be connected to a single C-Bus network.

• Where more than 1 km and/or 100 standard C-Bus units are required, two or more networks can be created and linked with C-Bus Network Bridge and/or C-Bus Ethernet Interface Units.

• Maximum number of networks in one installation is 255 (this limitation does not apply if a C-Bus Ethernet Interface is utilized, the system size is then limited to IP Adressing only).

• Maximum number of networks connected in series to the local network via Network Bridges is seven (i.e. using six network bridges).

• Each standard C-Bus unit requires 18mA @ 36Vdc to operate correctly. Some C-Bus units, e.g. 5500PC require 36mA. Some C-Bus units, e.g. L5108D1A are self-powering and do not take current from the 36V dc C-Bus Network. Check product specification for details or utilise the C-Bus calculator Software (downloadable from www.clipsal.com/cis).

• More than one C-Bus power supply can be connected to a C-Bus network to provide sufficient power to the C-Bus units, the C-Bus power supplies will share the load evenly. Maximum total power supply allowed is 2,000mA (2A).

• Any combination of power supply units is allowed as long as the total power available is 2,000mA or less.

• Each C-Bus network requires only one network burden. This network burden is software selectable on C-Bus output units.

• Each C-Bus network requires at least one system clock-generating unit (for data synchronisation).

• C-Bus power supply units may be connected to different phases.

• Individual relay channels may be connected to different phases.

• On L5508D1A units 240V supply to the units power supply and the 240V supply to the output channels must be on the same phase.

• The isolation between the 240V ac mains circuitry and the 36V dc C-Bus circuitry is greater than 3.5kV. This is achieved using double wound transformers and opto isolators This means the C-Bus wiring, connections and circuitry can be considered Extra Low Voltage.

• C-Bus Cat 5 UTP cable has mains rated sheathing which means the C-Bus cable can be taken inside electrical Distribution Boards, provided segregation requirements of AS3000 are met.

neo®
face the future

special ordering sheet

Ordering your neo® switch:

when ordering your special neo® switches, it is important that you complete the order code details correctly. There are a variety of colours to choose from for the three interchangeable parts of the switch assembly (see the diagram to the right).

An example of a special switch and the correct way to order it is shown below. Take a moment to read through it to ensure you select the switch that best suits you décor.

Order example:

If you decide on a 8 button/4 rocker switch with a White Outer Surround, a Silver Inner Surround and White Rocker Switches, the Order Code would be:

5 0 5 (8) N L - (2) (8) (2)

Key Combination

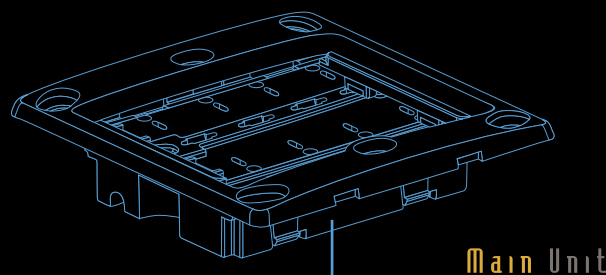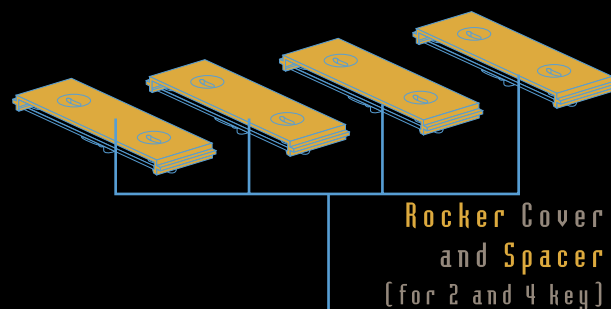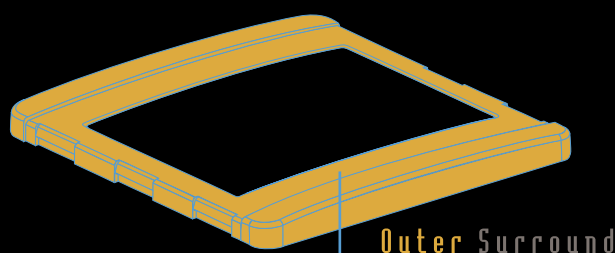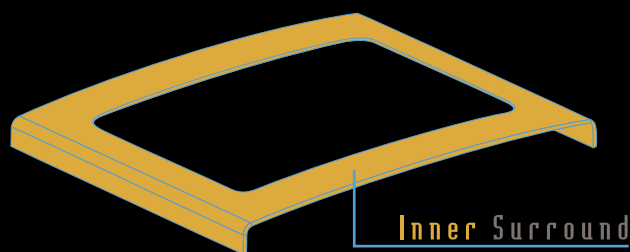|	
2	2 button / 1 rocker switch
4	4 button / 2 rocker switch
8	8 button / 4 rocker switch

Outer Surround Colour
Inner Surround Colour
Rocker Cover and Spacer Colour

Colour Selection	Code
Battleship Grey	1
White	2
Cream	3
Soft Grey	4
Desert Sand	5
Black	6
Brown	7
Brushed Aluminium (Inner Surround Only)	8
Gold (Inner Surround Only)	9

Inner Surround

Outer Surround

Rocker Cover and Spacer (for 2 and 4 key)

Rocker Cover with ID Window (5052NRI – order separately)
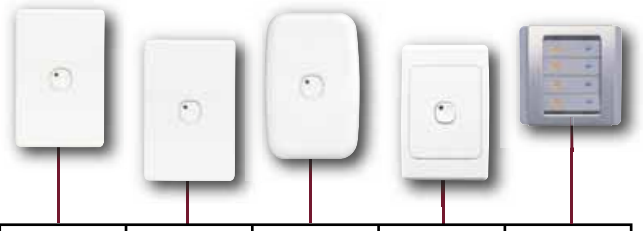
Main Unit

Everybody likes neo:

stylish, modern and cleverly constructed, neo® has an understated presence that people are drawn to. The attraction is a result of unwavering efforts to make neo® something quite exceptional.

colour selection chart

You can create virtually any look you want as C-Bus Key Input Units can be mixed in different colour combinations. There is also a huge range of configurations to work for you in any situation.

	Slimline	Classic	Eclipse	2000	Neo®
Stainless Steel		■			
Chrome	■	■	■	■	
Gold	■	■	■	■	
Brushed Aluminium	■	■	■	■	
Brushed Brass	■	■	■	■	
Polished Brass		■			
Gunmetal	■	■		■	
Chrome Shadow	■		■		
Silver Plate				■	
Gold Plate				■	
Neo® Grey					■
Neo® Silver*					■
Neo® Gold*					■
White	■	■	■	■	■
Cream	■	■	■	■	■
Soft Grey	■	■	■	■	■
Desert Sand	■	■	■	■	■
Black	■	■	■	■	■
Brown	■	■	■	■	■
Red		■		■	
Grey				■	
Beige				■	
Dove Grey				■	
Pale Salmon				■	
Nutmeg				■	

* These colours only availble for the Inner Surround.
Note: Silver and Gold Plate only available on surrounds of 2000 Series.

CLIPSAL®
INTEGRATED SYSTEMS

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clipsal.com

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clipsal.com/cis

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