TECHNICAL DESCRIPTION

The DS10C-CL is a Luxom network unit with an on board controller for decentralised management of up to 6 motors or 12 relays.

The module is equipped with:
- 12 outputs
- 5 binary inputs
- 1 wind speed sensor input
- 1 pulse input for counting pulses -32bit- (energy, water, gas…) or for connecting a DCF77 atomic clock receiver.
- real time clock including holiday table
- 10 channel clock with energy saving features

The 12 outputs are divided over 3 add-on connectors.

Every connector can be set-up to control:
- 2 motors (rolling shutters, sun screens, horizontal or vertical blinds…)
- 1 motor and 2 on/off outputs
- 4 on/off outputs

Should you only need to control 1 or 2 rolling shutters, the remaining outputs can be used to switch lights, fans, power outlets ...

Every output is equipped with a LED for status feedback.

The configuration of this module is done via the Luxom network and is stored on board in a non volatile memory.

After a power failure, every on/off output can individually be set-up to stay OFF, to go ON, or to revert to the state before power failure. (status is stored on the module)

The on-board software features are very powerful and easy to use.
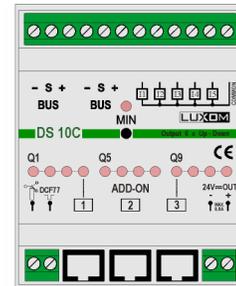
TECHNICAL DATA	
Product ID	210
Supply voltage	24 VDC
Power consumption	Max. 1.9VA
Installation	DIN-rail mounting
Number of bus connections	2
Connection BUS	2.5 mm²

FUNCTIONAL DATA CHANNEL Q1 – Q12	
Output	Transistor - low power 10V / 2mA

FUNCTIONAL DATA BINARY INPUTS	
Input	5 x binary
Signal type	For dry contacts or NPN and PNP signals
Voltage range	5…30 VDC
Maximum distance between input and contact	100 metres @ 24 VDC with shielded cable

FUNCTIONAL DATA PULSE INPUT – DCF77 INPUT	
Input	Binary - 24VDC
Signal type	For dry contacts or PNP signals
Maximum distance between input and pulse generator	100 metres with shielded cable

Warranty	3 years on exchange (excluding relays and connectors)
Operational temperature	0° to 50° C
Protection level	IP 20
Dimensions LxWxH	70 x 90 x 62 mm
Number of DIN-rail modules 18 mm	4 (without add-on modules)

WIRING DIAGRAM
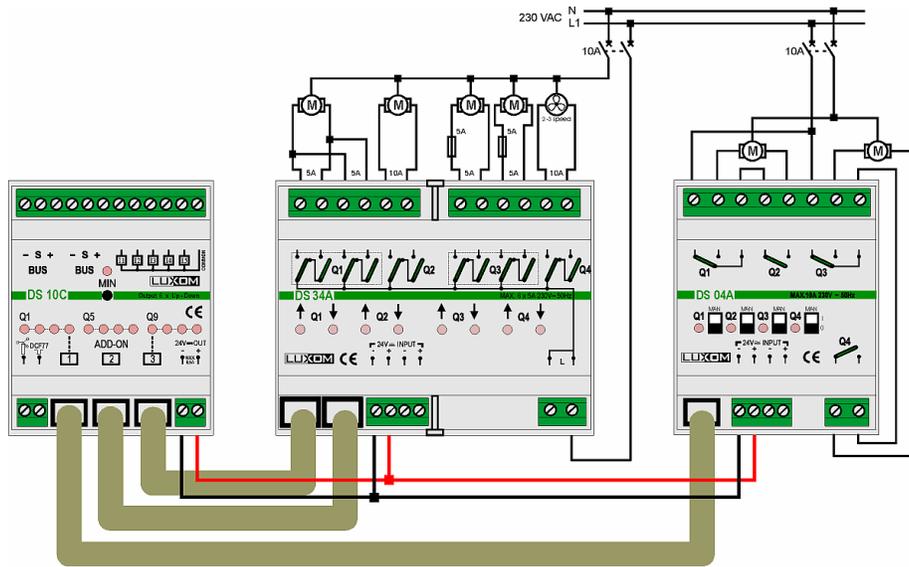
For more connection diagrams we refer to the 'Wiring diagrams.pdf' file.

ON BOARD SOFTWARE FEATURES

Output TOGGLE	Turn scene on with activation delay and duration time(*)	Real time clock with 16 holidays and 8 holiday periods
Output ON	Turn scene off with activation delay and duration time(*)	10 channel clock with an On and Off time and trigger sensitive And/Or gate
Output OFF	Turn light scene on/off with motion detector or contact	Each clock can be set-up as every day, -week, -month, -year and -hour interval
Ventilation - 1 button control II or III speed	Store scene with push button	Start- and stop date for every clock is possible
Ventilation - 2 button control II or III speed	Activate scene with interval mode. On and Off time(*) can be set-up differently	Random deviation for presence simulation is on board. (30" and 60")
Blinds - 2 button control up/down/stop	Lock single or multiple outputs.(including motors)	Automatic winter/summer time change over. (central-Europe)
Shutter - 1 button control up/down/stop + auto stop	Sun, Wind & Rain logic is on board. Levels and delays can be set-up easily	Pulse input can generate an action when the alarm level is reached. (Also in time window)
Shutter - 2 button control up/down/stop + auto stop	Every motor can run in auto, manual or semi-auto mode for sun dependent control	Use the wind speed digital input to control sun blinds or fountains at different levels.
Shutter to xx% position	Local input for measuring wind speed and generating alarms	Control any output or scene with the local binary inputs

- In total 28 scenes (moods) are available. This allows multiple combinations with the same
  outputs. If more scenes are required, they can be generated from another device on the Luxom
  network or via RS232 or TCP/IP.
- Without power, the on-board real time clock keeps running for 7 days.
- Outputs on the same or on a different module can be set-up to trigger each other.
- The inputs on this device are able to control any Luxom device on the Luxom network.

(*) The delay and time can be set-up from 0.05 sec to 170 hours