

TECHNICAL DESCRIPTION

The DS04L is a Luxom network unit with an on board controller for decentralised management of 4 relay ports and 5 binary inputs. (no master controller is needed)

Push buttons, presence detectors, transistor signals and door contacts can be connected directly to the 5 inputs.

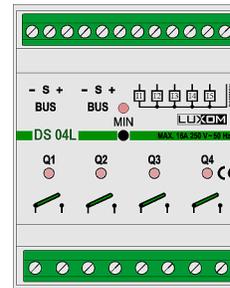
Each separate relay on the DS04L module has a dry contact rated 250 VAC/16A.

Every relay is protected against high currents with a VDR resistor and 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.

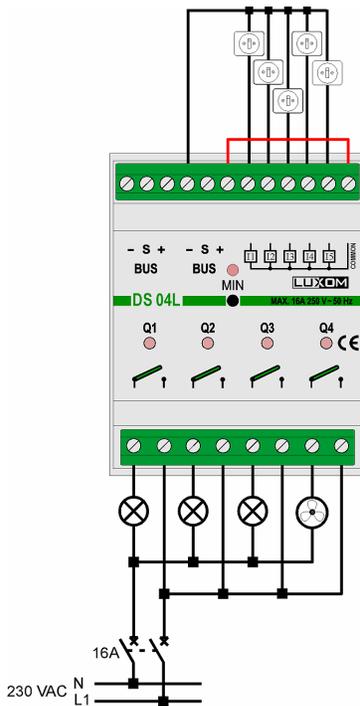
After a power failure, every output can individually be set-up to stay OFF, to go ON, or to revert to the state before power failure. (status is stored in the module)

The on-board software features in this module are more extensive than those present in the DS08L module.



TECHNICAL DATA	
Product ID	201
Supply voltage	24 VDC
Power consumption	Max. 2.75VA
Installation	DIN-rail mounting
Number of bus connections	2
Connection BUS	2.5 mm ²
FUNCTIONAL DATA CHANNEL Q1 – Q4	
Relay outputs	4x NO contact
Relay contact	Potential free
Switch voltage	Max. 250 VAC
Switch current	Max. 16A
Connection	4 mm ²
Switch capacity ohmic load (cosφ= 1)	Max. 4000 VA
Switch capacity inductive load (cosφ= 0,4)	Max. 1000 VA
Minimum requested load	100 mA at 5V
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
Warranty	3 years on exchange (excluding relays and connectors)
Operational temperature	0° to 50° C
Protection level	IP 20
Dimensions LxWxH	72 x 90 x 62 mm
Number of DIN-rail modules 18 mm	4

WIRING DIAGRAM



Notes:

No add-on modules can be connected to this module.

Because the outputs are protected against high currents with VDR resistors, it is not recommended to control shutters with these outputs. There is a risk of damaging the VDR resistors.

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

ON BOARD SOFTWARE FEATURES

Output - Toggle	Input - Toggle with contact closure	Input - Send Percentage % with contact closure
Output - ON	Input - Set with contact closure	Input - Switch between Set and Clear with every contact closure
Output - OFF	Input - Clear with contact closure	8 phantom ports (flags) on-board whose state is kept after power failure for 7 days
Output - ON after a delay(*)	Input - Normally Open contact	'On switch' time counter on every output and flag.
Output - OFF after a delay	Input - Normally Closed contact	'On' time counter on every output and flag.
Output - ON for a time(*)	Input - Normally Open Contact with repeat every 1...2550sec	Every counter has an alarm level that can be set-up
Output - OFF for a time	Input - Normally Closed Contact with repeat every 1...2550sec	All counters can be reset with one command
Output - blink (Alarm mode)	Input - For toggle switch	10x 4 channel (trigger sensitive) And/Or gate to set freely
Lock output	Input - Send temperature °C with contact closure	Day/Night energy saving mode on every output

(*)The delays and times can be configured from 0.05 sec to 170 hours for all kinds of applications. Multiple modes on the same outputs are easy to set-up.

Outputs on the same or on a different module can be set-up to listen to each other for applications such as a toilet light that has to start and stop the toilet fan with all possible delays.

Phantom ports (flags) can control outputs in other modules. (In this case the flag must be set-up as Master)

The counters of a flag can monitor an output that does not have counters.