

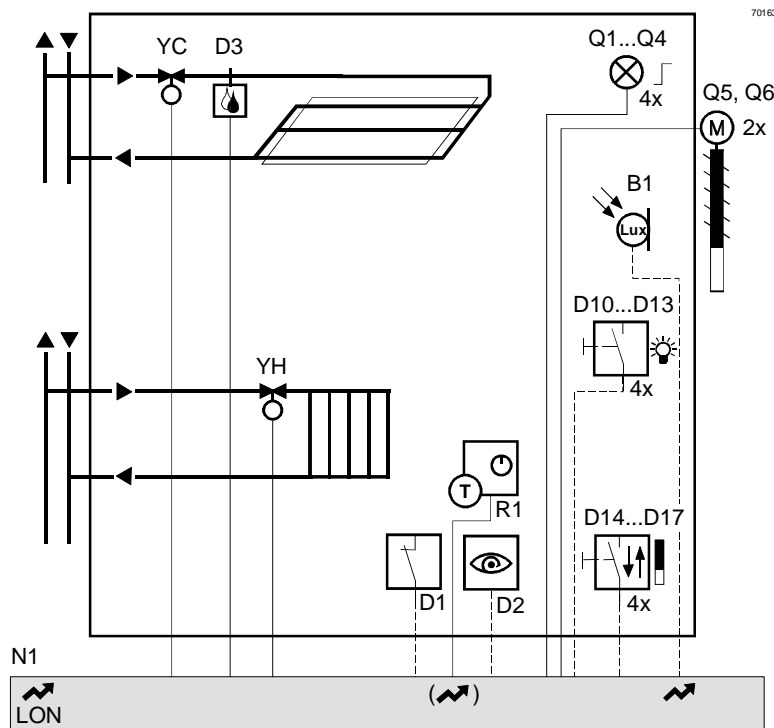
- Chilled ceiling and radiator (CLC02)
- 4 lighting groups, on/off
- 2 blinds, up/down



- Heating with radiator and cooling with chilled ceiling
- Modulating heating and cooling valves
- Dew point monitoring
- On/off control of 4 lighting groups
- Control of two motorised window-blinds (up/down)
- Lighting and blinds operated with momentary-contact switches, or
- Lighting and blinds operated with flexible room unit via LON bus
- Option: Automatic lighting control based on occupancy and daylight level

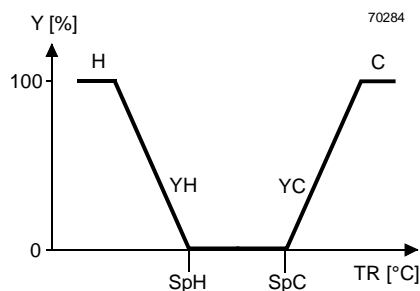
Plant diagram

- N1 Room controller
- R1 Room unit with temperature sensor
- D1 Window switch
- D2 Occupancy sensor
- D3 Dew point sensor
- D10...D13 Momentary-contact switches for 4 lighting groups, on/off
- D14... D17 Momentary-contact switches for 2 blinds, up/down
- B1 Daylight sensor via LON bus
- YH Heating valve
- YC Cooling valve
- Q1...Q4 4 lighting groups
- Q3...Q6 2 motors for blinds



Operating diagram

- Y Output signal
- TR Room temperature
- SpH Effective heating setpoint
- SpC Effective cooling setpoint
- H Heating sequence
- C Cooling sequence
- YH Heating valve
- YC Cooling valve

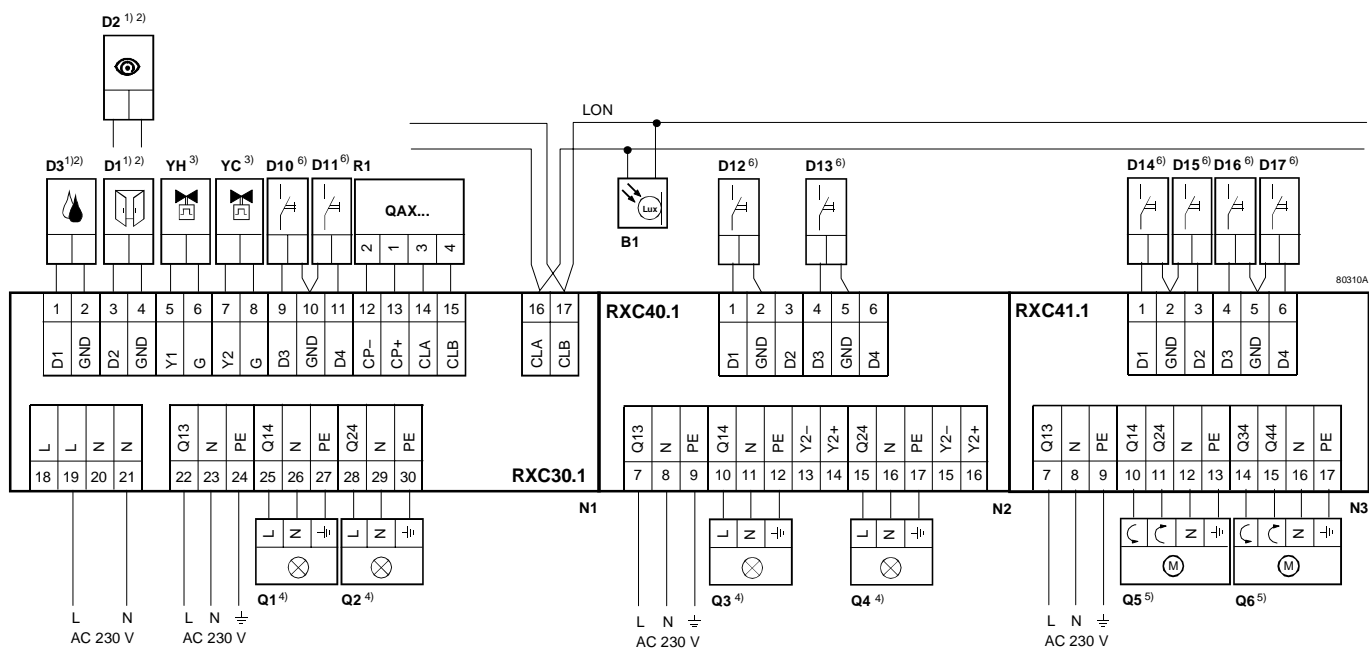


Functions

A detailed description of the lighting and window-blind control functions will be found at the beginning of this section in document CA2A3825E00, "INT – Function description". The HVAC functions are described in CA2A3815E00, "CLC – Function description".

Function	Brief description	See CA2A3825E00
4 lighting groups, on/off	<ul style="list-style-type: none"> – Manual on/off operation with momentary-contact switches – Manual on/off operation via LON bus – Control signals – Daylight sensor 	3.2, 3.4 3.4, 3.6 3.6 3.6
2 blinds, up/down	<ul style="list-style-type: none"> – Manual operation with momentary-contact switches – Manual operation via LON bus – Control signals – Blind control 	4.2, 4.4 4.4, 4.6 4.6 4.3, 4.4
Compatible controllers	INT06 requires the RXC30.1 basic controller, extension module RXC40.1 and extension module RXC41.1	

Connection diagram



- 1) Type of contact can be selected
- 2) Only two of these devices may be connected (either to D1 or D2)
- 3) Note the maximum simultaneous load on outputs Y1, Y2: Max. 6 VA (RXC30.1, data sheet 3840)
- 4) Max. load per output: filament lamps: 2.5 kW, fluorescent lamps: 1.5 kVA
- 5) Max. load for both blind motors together: AC 250 V, 3 A (limited with fine-wire fuse)
- 6) Momentary-contact switches (without mechanical lock)

Momentary-contact switches

The table shows how the digital inputs for momentary-contact switches are assigned to the outputs. (The original assignments can be changed with the RXT10.1.)

Switch	Digital input	Output	Lighting group or window blind controlled
D10	D3 (RXC30.1)	Q14 (RXC30.1)	Q1
D11	D4 (RXC30.1)	Q24 (RXC30.1)	Q2
D12	D1 (RXC40.1)	Q14 (RXC40.1)	Q3
D13	D3 (RXC40.1)	Q24 (RXC40.1)	Q4
D14	D1 (RXC41.1)	Q14 (RXC41.1)	Q5 Up
D15	D2 (RXC41.1)	Q24 (RXC41.1)	Q5 Down
D16	D3 (RXC41.1)	Q34 (RXC41.1)	Q6 Up
D17	D4 (RXC41.1)	Q44 (RXC41.1)	Q6 Down

Equipment list

Ref.	Description	Type	Data sheet
N1	Room controller	RXC30.1	3840
N2	Extension module for control of lighting	RXC40.1	3842
N3	Extension module for control of blinds	RXC41.1	3843
R1	Room unit	QAX30.1 QAX31.1 QAX32.1 QAX34.1 QAX50.1	1741 1741 1641 1645 1648
	(or flexible room unit via LON bus)		
	Wireless room unit Receiver	QAX90.1, 91.1 RXZ90.1	1643 1644
B1	Daylight sensor via LON bus	Third-party	–
D1	Window switch ^{1) 2)}	Third-party	–
D2	Occupancy sensor ^{1) 2)}	Third-party	–
D3	Dew point sensor ^{1) 2)} Please provide AC24V supply!	QFX21	1551
D10...D13	Momentary-contact switches for on/off lighting ⁵⁾	Third-party	–
D14...D17	Momentary-contact switches for blinds (up/down) ⁶⁾	Third-party	–
YH	Heating valve, thermic, on/off (PWM) control ³⁾	STE71.1	4874
		STA71	4877
YC	Cooling valve, thermic, on/off (PWM) control ³⁾	T3W..., T4W...	4829
		STE72	4873
		STE71.1	4874
		STA71	4877
Q1 ... Q4	Lighting groups ⁴⁾	Third-party	–
Q5, Q6	Motors for blinds ⁵⁾	Third-party	–

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- 6) Momentary-contact switches (without mechanical lock)

Configuration

Application INT06 incorporates the following parameters, set with the RXT10.1 commissioning and service tool (menu: **Device, Configuration, Settings**).

See CA2A3815E02 (application CLC02) for notes on setting the parameters for the HVAC functions

Menu	Parameters	Values and Range	Default setting
Lighting	Automatic switch-on	Building in use Building not in use	Enabled / Disabled Enabled / Disabled
	Automatic switch-off		Enabled / Disabled
	Off timer		0 ... 90 min
	Manual off disable		Enabled / Disabled
	State after power-up		On / Off / Last state
	Mode		Master / Slave
	Daylight	Off threshold (A)	On/Off hysteresis (B) ... 2500 Lux
On/Off hysteresis (B)		0 ... Off threshold (A)	100 Lux
Switch-on delay		0 ... 60 min	10 s
Switch-off delay		0 ... 60 min	10 s
Blinds	Run time	5 s... 10 min	10 s
	Blind Slats	With / Without	With
	Step time	0.10 s ... 1.00 s	0.20 s
	Slat steps after closing	0 ... 5 steps	3 steps
	Disable auto-open when closed	Enabled / Disabled	Disabled
	Close when building not in use	Enabled / Disabled	Enabled
	Close when room unoccupied	Enabled / Disabled	Disabled
	Mode	Master / Slave	Master
LONMARK bindings	See "LONMARK network variables " and "LONMARK binding templates"		

Ordering

Room controllers may be ordered either with the application described above or with the appropriate basic application. Please state the quantity, DESIGO RXC device name, type code and application.

Example 1	15	RXC30.1 room controllers with application INT06	RXC30.1/INT06
	15	Extension modules for lighting control	RXC40.1
	15	Extension modules for control of blinds	RXC41.1

- Notes
- The controllers will be delivered with the basic settings shown above.
 - Minimum order quantity: 10 controllers

Example 2	2	RXC30.1 room controllers	RXC30.1 / 00030
	2	Extension modules for lighting control	RXC40.1
	2	Extension modules for control of blinds	RXC41.1

- Notes
- The controllers will be delivered with the basic application
 - The application can be loaded into the controllers by means of the RXT10.1 tool
 - Minimum order quantity: 1 controller