

SHUTTER MODULE ROL01

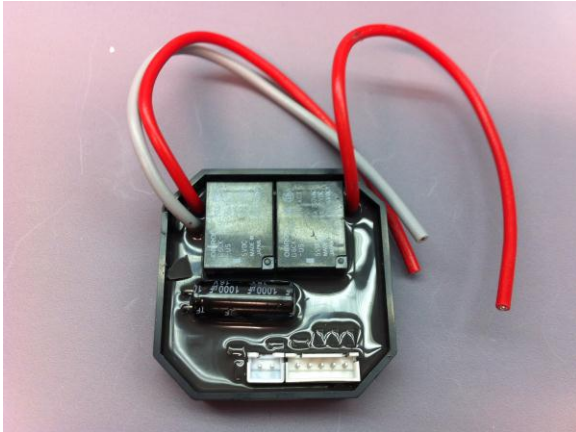


Figure 1 : Shutter module ROL01

WARNING

- The device must be mounted, commissioned and serviced by an authorized electrician in accordance with the country-specific regulations.
- Never connect an AC or DC voltage to an input for a potential-free contact. This will damage the input module.
- The device must not be opened. The guarantee provisions will be void when the module has been opened.
- Electrical shock when live parts are touched.

1. Product Description

The ROL01 is a decentral module, suitable for switching 1 motor and contains a connector to which two potential free inputs (e.g. pushbuttons) can be connected. The module fits in a standard flush-mounted socket which guarantees easy connection with potential push-buttons and the outputs. The relay module has 2 potential-free contacts (1 UP, 1 DOWN) which can control 1 motor of max 3,5A at 230V ($\cos\phi=1$) / 30 Vdc.

The maximum length of the conductor between the ROL01 and the potential free input is 20 meters. These inputs can be used to control the shutter or any other output on the bus. The cable type or its section is irrelevant. The input contacts can be selected and set using the Qbus configuration software:

- Push button = button that is open when inactive – only active when pushed shortly (e.g. doorbell).
- Normal open = contact that is open when inactive.
- Normal closed = contact that is closed when inactive.
- Switch = when a single-pole conventional switch is connected to the input.

Each module has a unique serial number enabling programming anywhere and anytime. All programming remains internally stored in a nonvolatile memory. After a voltage cut-off, the outputs return to their latest position.

A bipolar automatic fuse of maximum 8A must be placed on the mains power.

2. Safety Instructions

Read the complete manual before carrying out the installation and activating the system.

3. Mounting and wiring

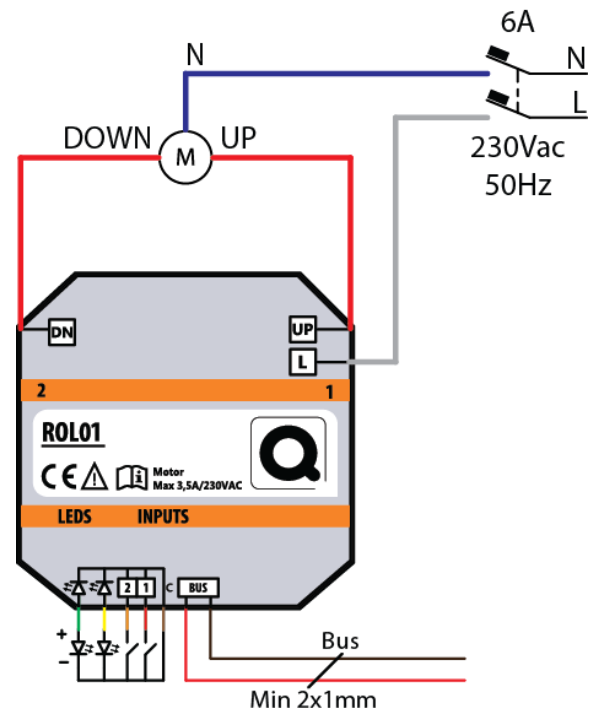


Figure 2 : Connection example for mains voltage and loads

BUS WIRING:

The provided bus cable needs to be connected to the connector on the ROL01 and the two separate cables need to be connected to the bus. It is recommended to use the Qbus cable or any other cable with minimum 2 x 1mm² conductors as a bus lead. The green protected EIB wire is also allowed when the conductors are guided per 2 in order to obtain a section of minimum 2 x 1mm².

IMPORTANT : THE BUS CABLE SHOULD BE SHIELDED AND GROUNDED! THE GROUNDING SHOULD BE CONNECTED TO THE OVERALL GROUNDING OF THE BUILDING.

SHUTTER MODULE ROL01

LOAD CIRCUITS (1,2) :

Both outputs of the REL have 14cm wires. These can be connected to the to the motor.

INPUTS :

A separate multicable (29cm) is delivered with the ROL01 which can be connected to the input connector of the module. Low-current LEDs (2mA without serial resistor) can be connected to the LED outputs. Via the Qbus System Manager, it can be selected if the LEDs represent the status of the relays or the status of the inputs.

The maximum length of the conductor between the ROL01 and the potential free input is 20 meters. The cable type or its section is irrelevant.

We suggest to foresee two flush-mounted sockets for the installation of the ROL01: one for the ROL01 and the output connections and one for the connection of the inputs. This will increase the ease of installation.

POWER SUPPLY:

The ROL01 is powered by the bus.

4. Technical Data

GENERAL SPECIFICATIONS :

- Power supply : bus
- Ambient temperature :
Working temp. range : 10°C to 50°C
Storage temp. range : -10°C to 60°C
- Maximum humidity : 93%, no moisture condensation
- Bus load :
At rest: 5mA without LEDs, 8mA with LEDs at nominal 13,8V
During activation: 16mA without LEDs, 20mA with LEDs at nominal 13,8V
- Max installation altitude : 2.000 meters.

OUTPUTS :

- UP – DN: Up – Down contacts for motor control
- Rated current : 3,5A inductive
- A bipolar automatic fuse of maximum 6A must be placed on the mains power.
- Contact resistance : 30mΩ
- Endurance : min. 100,000 operations
- Rated load :
Resistive load (cosφ = 1)
8A at 230Vac
8A at 30Vdc
Inductive load (cosφ = 0,4; L/R = 7 ms)
3,5A at 230Vac
3,5A at 30Vdc
- Maximum switching power :
Resistive load (cosφ = 1)

2000VA at 230Vac

240W at 30Vdc

Inductive load (cosφ = 0,4; L/R = 7 ms)

875VA at 230Vac

170W at 30Vdc

We strongly recommend not to exceed these values, otherwise an external contactor should be used!

- 2mA LEDs without serial resistor can be connected to the LED outputs.

INPUTS :

- 1 – 2 : 2 potential-free single contacts with LED output
- Input signal delay :
- when closing the contact : max 100ms
- after opening the contact : max 100ms
- Input function : pushbutton, normal open, normal close, switch. To be set by Qbus Configuration Software (System Manager).

PHYSICAL SPECIFICATIONS

- Housing
- Protection Degree : IP20
- Installation : on the bus
- Dimensions (HxWxL) : 12mm x49mm x49mm
- Weight : approx. 50 gr.

ELECTRICAL SAFETY

- Bus : 13,8VDC safety extra low voltage.
- Non-toxic WEEE/RoHS compliant

CE

- Complies with the EMC regulations and low voltage regulations. The device complies with EN50090-2-2 (1996) +A1(2002) +A2 (2007) en EN61000-6-3, EN61000-6-1 (2007)

5. Guarantee provisions

Period of guarantee : 2 years from date of delivery.

Guarantee will not be accepted if the device has been opened!

Any faulty devices should be send postage-free with a description of the defect to our central customer service office :

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