

## EN – Instructions for installation of shutter (louver) control system **retro**

The switch is designed for switching single-phase appliances up to 10 A and for a voltage of 230 V. The main function consists in reversing on both sides when reaching approx. 35 °, when reaching 45 ° it is locked. The switch can be mainly used to control the window rolls, window blinds, garage doors, etc. The shutter control system should not be mounted on moving machines and in places with increased seismic danger (shocks can cause automatic shutdown).

### Technical specification of shutter:

Switch code: DSR-22  
 Voltage: 230 V AC, 50 Hz  
 Current: 10 A  
 Cross-section of wires: from 1,5 mm<sup>2</sup> to 2,5 mm<sup>2</sup>  
 Switch's weight (without lid) : 0,104 kg

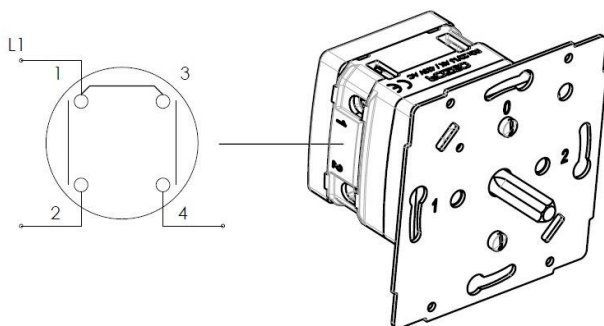
### Installation of switch mounting box:

- Use switch mounting box of min. depth 55 mm
- To install multiple fitting assemblies, it is necessary to use multiple boxes with 71mm spacing of centres
- The switch mounting box must be placed flat (in plane) with the plaster wall.  
 In case of problems with a "sunk" mounting box, the VK1 or VK2 spacer (distance) rings must be used in order to prevent deformation of the fittings when the screws are tightened.

### Switch connection:

- Switches are suitable for connection of Cu wires from 1.5 mm<sup>2</sup> to 2,5 mm<sup>2</sup> cross-sections
- Strip the wires in the maximum length of 8 mm
- Connect the wires according the wiring diagram: input -connectors 1, 3 and output - connectors 2, 4
- The specified tightening torque for the screws that secure the wires is 1.2 Nm.

### Connecting diagram:



### Shutter switch function test:

- Turn the shaft of the switch by approx. 35 ° to the right or left "1-2"
- Check that one pole has been closed
- After releasing the switch, it must automatically return to the initial (base) position "0"
- Check that the closed contact has been opened
- Turn the shaft of the switch 45 ° to the right or left "1-2"
- Check that one pole has been permanently closed - the control shaft remains locked in the on position
- Turn the switch shaft back to the initial (base) position "0"
- Check that the closed contact has been opened

**Completion of the switch installation:**

- Fixing the switch to the mounting box so that the switch's arretation pin is in a horizontal position (Fig. 1)
- Place a frame (ceramic, wood, concrete) and cover on the metal frame of the device and lock it with screws (Fig. 2). With the glass frame is handle connected together. When using ceramic frame, tighten screws with a torque of 0,05 Nm – this prevents cracking of the frame due to its brittleness

Fig. 1

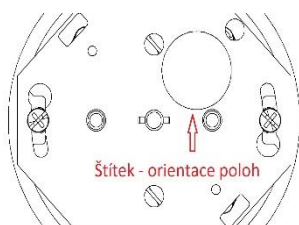


Fig. 2

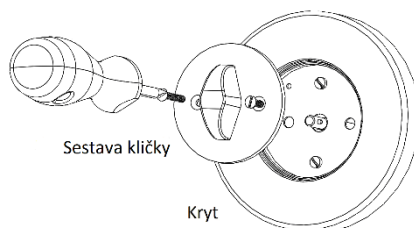
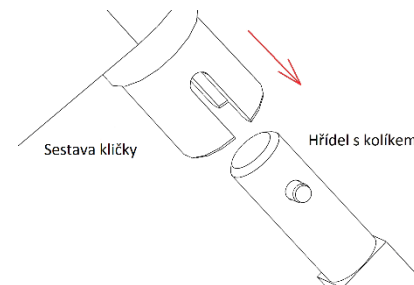


Fig. 3

**Maintenance:**

The switch device does not require any maintenance!

Switch covers must never be wiped or washed by abrasive cleaning cloths and do not use any aggressive chemicals (petrol, acetone, etc.).

**Notice:**

Installation and possible disassembly must be entrusted to a person with appropriate electrical qualification. Always disconnect the mains voltage before installation (or dismantling)!

Do not use a broken or damaged device and secure it against use. If the device is not fitted with visible parts, it must not be energized or operated with.

The product contains no hazardous substances; after expiration of its service life, it must be handled in conformity with the waste act in force or pertinent related regulations.