

Operating instructions for the processor-controlled Light and Twilight Sensor Relays LSR12-200-230V and LSR12-200-12V UC, components of the BRS Shading System and Roller Blind Control **BRS**



LSR12-200-230V, 2 NO, 5A/250V AC

LSR12-200-12V UC, 2 NO, 0,5A/12V UC

The processor-controlled Light and Twilight Sensor Relays LSR12 evaluate the control input, light sensor, and, depending on the setting of the rotary control under a flap on the front panel, send control commands to the actuators EGS12.1 and/or EGS12.2. The 230V type is equipped with an isolation transformer for the internal power supply and the connected light sensor. The supply voltage is 230V at the L - N terminals. The 12V type has a supply voltage of 12V UC \pm 10% at the terminals +B1 to -A2, with power supply ENT12-24W-230V/12V DC.

These units are 2 module units = 36 mm wide and 55 mm deep.

Apart from setting brightness and delay times, the operating mode rotary switch can be used to select a test mode. Whenever the switch setting is changed from OFF (sensor functions off) to TEST, one of the contact outputs 2 or 3 is activated while TEST is selected.

Light sensor LS is connected to the terminals LS and GND and, acting as a **sun sensor**, outputs a pulse of 2 sec. to contact output 2 when a threshold that has been set with a rotary control is **exceeded**. The switching threshold can be set from 2 to 2000 lux to 2 to 60 klux with the operating-mode rotary switch. An LED indicates that the switching threshold has been exceeded. The light sensor function is required to activate shading elements and to open blinds; there is no priority assignment.

Light sensor LS, in the form of a **twilight sensor**, outputs a pulse of 2 sec. to contact output 3 when a switching threshold that has been set with a rotary control has been exceeded for at least a whole delay period. Using the operating-mode rotary switch, the switching threshold can be changed from 2 to 2000 lux to 2 to 60 klux and the delay from 5 to 15 minutes. An LED indicates when values are below threshold. It flashes slowly during the delay period.

The twilight sensor function is needed to deactivate shading elements, to close blinds and to turn on security lighting – it is not assigned a priority. The lux range that is selected does not depend on the selected sun-sensor range.

Only one Light Sensor LS can be connected to a LSR12. Additional light sensors for a variety of directions and switching thresholds require a Light and Twilight Sensor Relay LSR12.

If the switching threshold of the twilight sensor has been set equally or higher than the switching threshold of the sun sensor, the switching threshold of the sun sensor will be internally raised over the switching threshold of the twilight sensor.

These electrical devices may be installed only by a properly qualified technician.

Do not lay measurement leads parallel to other electrical lines – measurement leads must be screened if longer than 10 m.

For example, JY-ST-Y. To extend leads use screw terminals and damp-proof connectors. When selecting an installation site for light, rain/frost and wind sensors, ensure that the sensors are not in the shadow of the objects being monitored.

