



Operating instructions for the EGS12.1 current-inrush electronic group-control switch as part of the BRS shading system and roller shutter control.

EGS12.1-200-230V, 1+1 NO for 1 motor 6A/250V AC

EGS12.1 processor-controlled group impulse switch serves to implement commands generated by sensors and/or series-connected sensor relays and controls a motor as a function of the setting of rotary switches arranged under a lid on the front side. One module = 18 mm wide, 55 mm deep. Supply voltage 230 V at terminals L-N. The control voltage at terminals A1 through A8 is required to have an identical potential.

The **function** of this electronic group impulse switch is based on the principle that, on the one hand, impulse control is used to accomplish UP-stop-DOWN-stop (contact 1 closed - both contacts open - contact 2 closed - both contacts open) and, on the other hand, additional control inputs can be employed to select UP or DOWN as desired. 'Dynamic' refers to control inputs for which one impulse of not less than 20 milliseconds is sufficient to close a contact. 'Static' denotes a control input for which the contact is only closed as long as the control command is applied.

UP and DOWN apply to shutters, venetian blinds and roller blinds. For awnings, UP = coil, i.e. retract, and DOWN = uncoil, i.e. extend. For windows, UP = open, and DOWN = shut.

Automatic reversal for venetian blinds and awnings is controlled by means of the top rotary switch. 0 = OFF, otherwise from 0.1 to 5 seconds ON with selected reversal time. In this case, it is only for DOWN that the sense is reversed on time-out of the time lag selected by means of the middle rotary switch, for example to stretch awnings or set venetian blinds to a defined position. When a contact switch connected to A1 is used or when A3 and A4 are used for local control with a dual roller shutter contact switch while mode set 'Auto dyn.', a double-impulse activates the advanced automatic reversing system: The venetian blind rotates slowly in the opposite direction and, thus, can be stopped in the desired position at the touch of a button.

The time delay (release delay RV) is set by means of the middle rotary switch. Whilst the group impulse switch is in the UP or DOWN position the selected time delay is 'timing out' and, on time-out, the device is automatically changed to STOP. Therefore, the minimum time delay to be chosen is that required for the shading element or shutter to move from one limit position to the other.

The mode is selected by means of the lower rotary switch. The 'Auto dyn.' and the 'Auto stat.' positions are described below. ▲ and ▼ are the positions for manual control 'UP' and 'DOWN' on the device. These have priority over any other control command. They can even be used to override 'central with priority'. LED Display for the UP switch position below the middle rotary switch, and for the DOWN switch position below the bottom rotary switch.

Local control with pushbutton connected to terminal A1. Each impulse causes the group impulse switch to change its position in the UP-stop-DOWN-stop sequence. A double-impulse activates the advanced automatic reversing system: The venetian blind rotates slowly in the opposite direction, and thus, can be stopped in the desired position at the touch of a button.

Local control with roller shutter toggle switch connected to terminals A3 (UP) and A4 (DOWN) with 'Auto stat.' mode selected. The 'UP' or 'DOWN' position is only activated as long as a switch

Local control with dual roller shutter contact switches connected to A3 (UP) and A4 (DOWN) with 'Auto dyn.' mode selected. The 'UP' or 'DOWN' position is activated by a switch impulse. A further impulse from this contact switch stops the sequence immediately. A double-impulse activates the advanced automatic reversing system: The venetian blind rotates slowly in the opposite direction, and thus, can be stopped in the desired position at the touch of a button.

Dynamic without priority central control connected to terminals A3 (UP) and A4 (DOWN) with 'Auto dyn.' mode selected. 'Without priority' because the local input A1 and the central control inputs A7 and A8 can immediately override even whilst the control contact on A3 or A4 is still closed.

Dynamic with priority central control connected to terminals A7 (UP) and A8 (DOWN). 'with priority' because these control inputs cannot be overridden by other control inputs as long as the central control contact is closed.

These central control contacts A7 and A8 are used by the universal sensor relay for the wind sensor, the frost sensor and the rain sensor functions as these are required to have absolute priority over other sensor commands. However, they are also used for the sun sensor and the twilight sensor functions, as these signals have a duration of 2 seconds only and are not transferred as long as wind or rain is detected.

Settinas

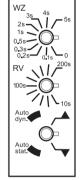
Automatic 0 reversing system

automatic reversing system off

0.1 sto 5 s automatic reversing system on with set reversing time WZ

10 to Delay After the time delay 200 s has elapsed the device (release is automatically changed delay RV)

to 'stop'



Mode settings Auto A3 and A4 are local dyn. control inputs or

dynamic central control inputs (for pulse control)

Auto stat

A3 and A4 are local control inputs or static central control inputs

Manual control

up with priority

down with priority

(no automatic reversing system)

Connecting-terminal assignment EGS12.1-200-230 V

43 N A4 μ

phase of supply voltage 230 V AC neutral of supply voltage 230 V AC

'UP-stop-DOWN-stop', local contact switch A1 =

АЗ 'UP' static, local or central or 'UP' dynamic, central 1) A4 = 'DOWN' static, local or central

or 'DOWN' dynamic, central 1)

'UP' dynamic, central with priority Α7 'DOWN' dynamic, central with priority **A8**

K1 = basis NO contact, floating

K2 =motor down K3 =motor up

1) depends on mode setting

Caution!

These electrical devices may only be installed and fitted by trained technicians.