

Shutter control

easy500 is required to control a shutter. The controls are to be operated by the P buttons of the easy or by means of a time switch with random switching.

Task

You can move the shutter up and down (Manual mode) using the P buttons, or by means of the time switch, with the shutter moved up in the mornings and down in the evenings.

Pressing a direction button in **Manual mode** will cause the shutter to be moved fully in the specified direction. The shutter drive is provided with internal end position switches so that it is disconnected when the top or bottom position is reached.

If you do not wish to open or close the shutter fully, you can interrupt the motion of the shutter by pressing the button for the opposite direction.

The special feature of **Automatic mode** is the random time switching that varies the switching times of the shutter within a 30-minute time frame in order to provide a kind of .closing simulation function during periods of absence..

Two display texts indicate whether manual or automatic mode (MANUAL/AUTO) is active.

Since the shutter has its own internal end position switches and is switched off when the end position is reached, the easy output is switched off via the run time monitoring function.

Operands

Inputs

P01 Auto off
P02 Shutter open
P03 Auto on
P04 Shutter closed

Outputs

Q01 Shutter open
Q02 Shutter closed

Parameters

D1 Auto off
D2 Auto on
H1 Time switch closed
H2 Time switch open
T1 Runtime monitoring
T2 Random time closed
T3 Start pulse closed
T4 Random time open
T5 Start pulse open

Example

The time switch enables the random time every day from 6:00 to 07:00. As the random time is set for 30 minutes, the shutter is opened between 6:00 and 6:30.

You change the times in the time switch in channel A. The time frame in channel A must be longer than the random time.