

4- switching circuit via pushbuttons with timing relays

Task definition

easy is required to provide a 4-stage switching circuit via two pushbuttons.

easy controls 4 outputs via two pushbuttons. This circuit allows you for example to implement the consecutive switching of up to 4 different lighting groups as required depending on the actuation time of the pushbuttons.

In the first stage output 1 is active. In the second stage outputs 1 and 2. In third stage outputs 1, 2 and 3 are active and in the fourth stage outputs 1, 2, 3 and 4 are active.

A button is required for increasing or decreasing the switching stage. For each second that a pushbutton is depressed, a stage is switched in the appropriate direction.

Device class used

easyE4

Wiring Inputs

I01 Up button
I02 Down button

Outputs

Q01 Lighting group 1
Q02 Lighting group 2
Q03 Lighting group 3
Q04 Lighting group 4

Parameters

T01 Required actuation time for switching from stage 0 to 1
T02 Required actuation time for switching from stage 1 to 2
T03 Required actuation time for switching from stage 2 to 3
T04 Required actuation time for switching from stage 3 to 4