

Stairway circuit with cellar and retriggering

Task

An EASY512-AC-R is used to implement a stairway circuit for controlling two lighting sections (cellar and stairway) independently of each other.

Each of these sections is provided with four pushbuttons for switching them. After being switched on for the first time, the lighting for the appropriate section stays on for a preset time of 5 minutes.

Pressing one of the pushbuttons a second time within the lighting period will activate a second time of 10 minutes.

Using the AC-R version allows you to connect the easy to the mains supply without the need for a transformer. The relay outputs also allow you to switch the lights directly without the need for coupling relays.

The preset times can naturally be set as required. T1 and T2 contain the times 1 and 2 for the stairway. T3 and T4 contain the times 1 and 2 for the cellar.

Device class used

easy500

Wiring

Inputs

I01-I04 = S1-S4 (light switch stairway)

I05-I08 = S5-S8 (light switch cellar)

Outputs

Q01-Q02 = H1-H2 (stairway lighting section)

Q03-Q04 = H3-H4 (cellar lighting section)

Parameters

T01	lighting time stairway first activation
T02	lighting time stairway second activation
T03	lighting time cellar first activation
T04	lighting time cellar second activation
C01	activation counter stairway lighting
C02	activation counter cellar lighting