

Function name: OS – Operating mode switch

Example

Use of the operating mode switch with 3 switch positions.
 Actuating a key switch allows the operating mode change.
 The actual change is implemented with an acceptance button.

The connections are implemented as follows:

- Operating mode switch S1 at device terminals IS1 to IS3.
- Key switch S2 at device terminal IS6.
- Acceptance button S3 at device terminal IS8.

This looks as follows in the electrical circuit diagram:

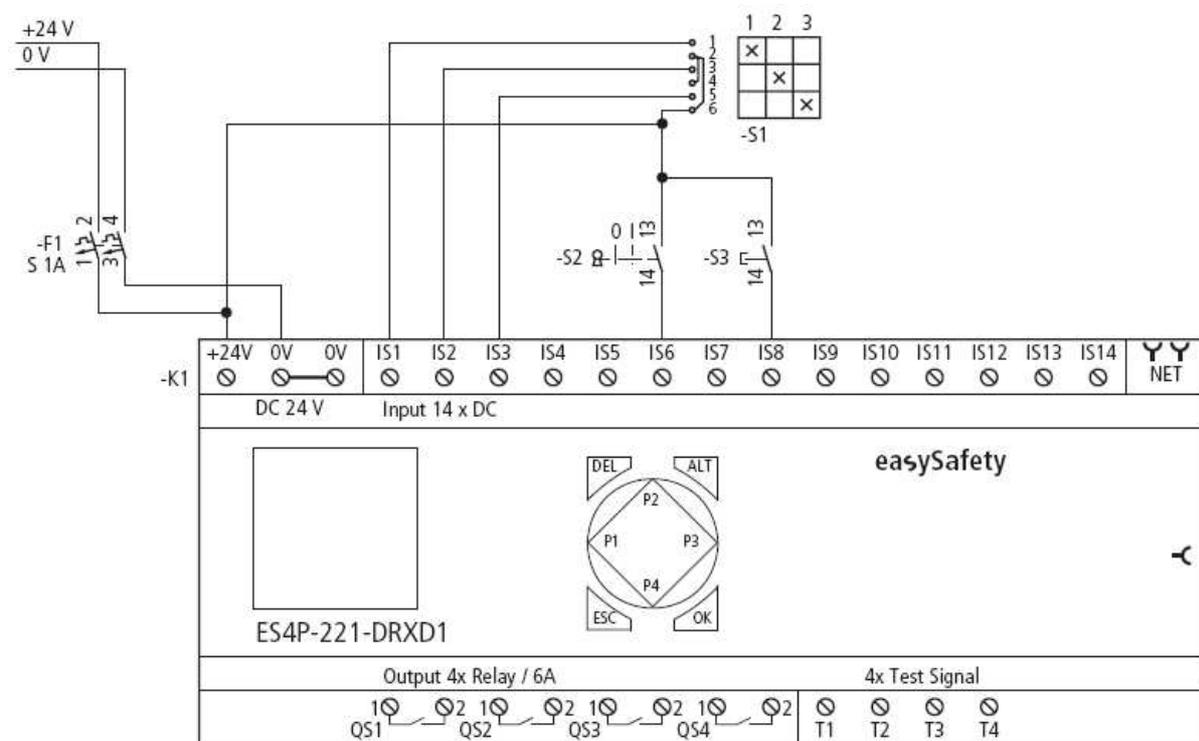


Figure 1: Electrical circuit diagram

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The signal diagram of the function block for this application shows:

- the dependence of the operating mode contact OS01QS on the status of coils OS01I1 to OS01I3, the enable coil OS01UL and the acceptance coil OS01SM.

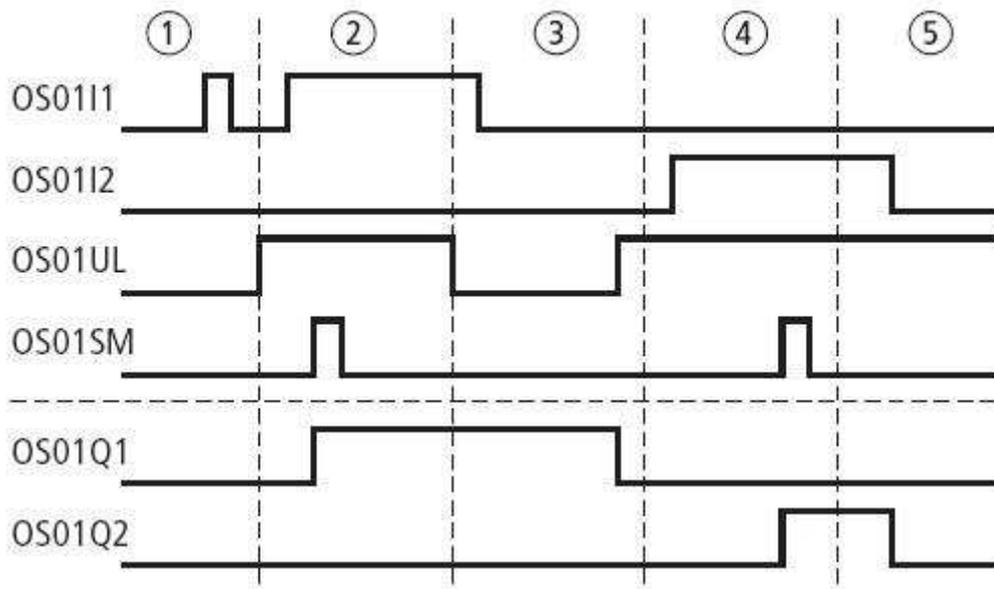


Figure 2: Signal diagram

- 1 Operating mode 1 is not accepted as no enable is present via OS01UL for the operating mode change.
- 2 Enable for operating mode change present via OS01UL. Operating mode 1 is accepted with a rising edge at OS01SM.
- 3 Enable for operating mode change is removed. As operating mode 1 was active at this point, this mode is retained until the enable is present again at OS01UL. If the coil OS01UL picks up, the function block detects that no operating mode is selected and the closed contact OS01Q1 opens.
- 4 Acceptance of operating mode 2.
- 5 Operating mode 2 is removed.

Please note: The master-password for the example file is: "111111".