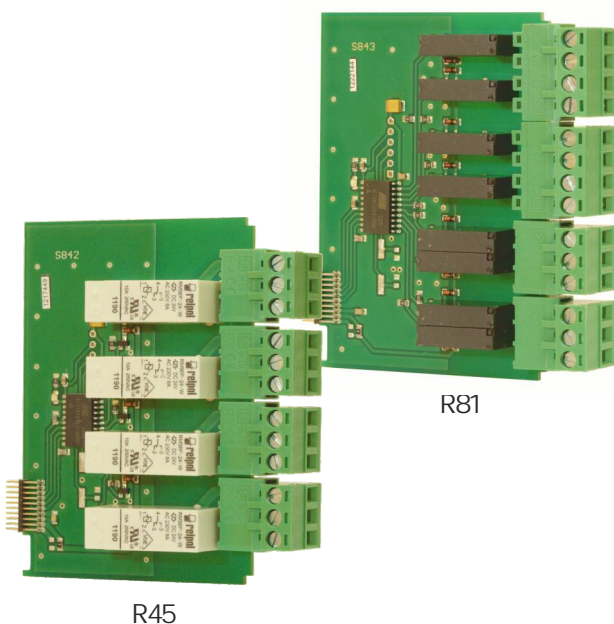


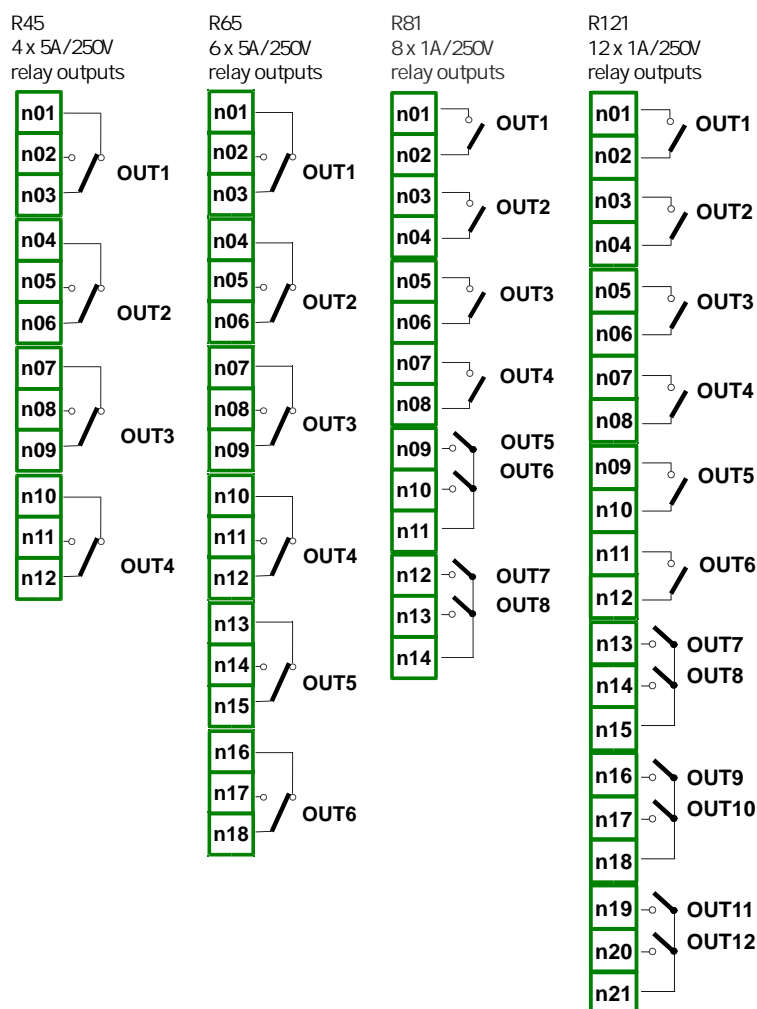
Output modules - relay



- R45: 4 x 5A/250V relay outputs
- R65: 6 x 5A/250V relay outputs
- R81: 8 x 1A/250V relay outputs
- R121: 12 x 1A/250V relay outputs

The modules with relay outputs are used to switch on and off executive device circuits in the automatics. These modules are equipped with 4, 6, 8 or 12 relay outputs.

MODULE PIN ASSIGNMENT



Relay parameters are:

- Name - read-only output name given by the device,
- Mode - read-only field which allows to choose, how the relay reacts on the source signal (Source parameter),
- Source - it contains the Logical channels list, the chosen one will be data source for the relay,
- Alarm state - allows to choose relay's respond for alarm state. Alarm state is when in logical channel, which is data source for the relay, returns -Err-, -Lo- or -Hi-,
- Level mode - allows to choose, where the data is coming from for Level, Lower level and Upper level parameter: value, channel,
- Level - defines constant signal level, exceeding which causes relay state switch, or allows to choose a Logical channel, which actual value data is for relay state switch Level,
- Lower level and Upper level - defines constant values which depends on relay state switch, or allows to choose a logical channels from the list, which actual value data is for relay state switch,
- Hysteresis - shifts relay levels with constant value,
- On delay - time which elapses from the moment when source data meets the requirements for relay switch,
- OFF delay - time which elapses from the moment when source data meets the requirement for relay switch,
- Min.ON time - minimal time when the relay is in the active state,
- Min.OFF time - minimal time when the relay is in the passive state.

TECHNICAL DATA

	R45	R65	R81	R121
Number of relays	4 SPDP (Switchable)	6 SPDP (Switchable)	8 SPST (N.O.)	12 SPST (N.O.)
Max. load per relay	5A, $\cos \phi = 1$ (resistive load)	5A, $\cos \phi = 1$ (resistive load)	1A, $\cos \phi = 1$ (resistive load)	1A, $\cos \phi = 1$ (resistive load)
Output operation method *	disabled, above level, below level, inside range, outside range	disabled, above level, below level, inside range, outside range	disabled, above level, below level, inside range, outside range	disabled, above level, below level, inside range, outside range
Max. voltage switched by relay	250V AC	250V AC	250V AC	250V AC
Insulation strength	1000V AC @ 60 sec.	1000V AC @ 60 sec.	1000V AC @ 60 sec.	1000V AC @ 60 sec.
Weight	94 g	133 g	74 g	110 g
Part number	M99-R45-001	M141-R65-001	M99-R81-001	M141-R121-001

* CMC updates output state every 100ms