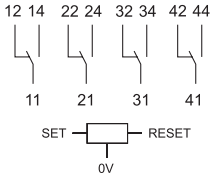
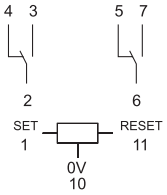
Bistable relay for control and signaling
RB.14 35 mm rail (EN 60715) mount
RB.22 11 pin socket type 90.21 mount

- 2 or 4 pole changeover contact
- DC voltage
- 2 coil type
- SET and RESET signals
- LED command status indication
- Cadmium Free contact material

RB.14/22
Screw terminal



	RB.14	RB.22
		
		

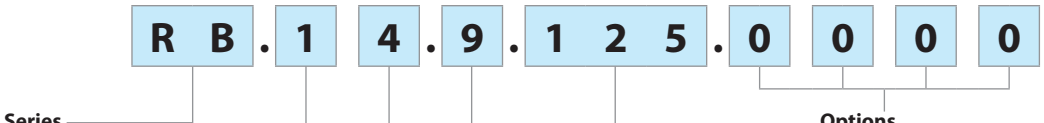
For outline drawings see page 5

		RB.14	RB.22
Contact specification			
Contact configuration		4 CO (4PDT)	2 CO (DPDT)
Rated current/Maximum peak current	A	8/15	8/15
Rated voltage/ Maximum switching voltage	V AC (50/60 Hz)	250/400	250/400
Rated load AC1	VA	2000	2000
Rated load AC15	VA	350	350
Single phase motor rating (230 V AC)	kW	0.37	0.37
Breaking capacity DC1: 30/110/220 V	A	8/0.3/0.12	8/0.3/0.12
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)
Standard contact material		$AgSnO_2$	$AgSnO_2$
Coil specification			
Nominal voltage (U_N)	V DC	24 - 48 - 110…125 - 220…250	24 - 110…125 - 220…250
Rated power DC	W	7	4
Operating range	V DC	$(0.8…1.1)U_N$	$(0.8…1.1)U_N$
Technical data			
Mechanical life AC/DC	cycles	$2 \cdot 10^6$	$2 \cdot 10^6$
Electrical life at rated load AC1	cycles	$100 \cdot 10^3$	$100 \cdot 10^3$
Operate/release time SET/RESET	ms	10/5	10/5
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)	4 (8 mm)
Dielectric strength between open contacts	V AC	1000	1000
Ambient temperature range	°C	–40…+55	–40…+55
Protection category		IP 20	IP 20
Approvals relay (according to type)		CE EAC	

Ordering information

A

Example: RB series, bistable relay, 4 CO, 125 V DC coil, 35 mm rail (EN 60715) mount.



Series

Type
1 = Modular version

No. of poles
4 = 4 CO

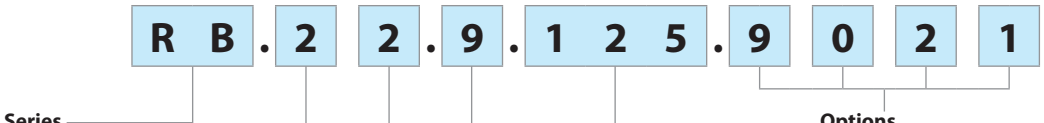
Coil version
9 = DC

Coil voltage
024 = 24 V DC
048 = 48 V DC
125 = 110…125 V DC
250 = 220…250 V DC

Options
0000 = Modular version 35 mm rail (EN 60715)

Codes/supply voltages
RB.14.9.024.0000
RB.14.9.048.0000
RB.14.9.125.0000
RB.14.9.250.0000

Example: RB series, bistable relay, 2 CO, 125 V DC coil, 11 pin socket type 90.21 mount.



Series

Type
2 = 11 pin socket type 90.21 mount

No. of poles
2 = 2 CO

Coil version
9 = DC

Coil voltage
024 = 24 V DC
125 = 110…125 V DC
250 = 220…250 V DC

Options
9021 = Version plug-in 90.21 socket
0000 = Version relay only

Codes/supply voltages
RB.22.9.024.0000
RB.22.9.024.9021
RB.22.9.125.0000
RB.22.9.125.9021
RB.22.9.250.0000
RB.22.9.250.9021

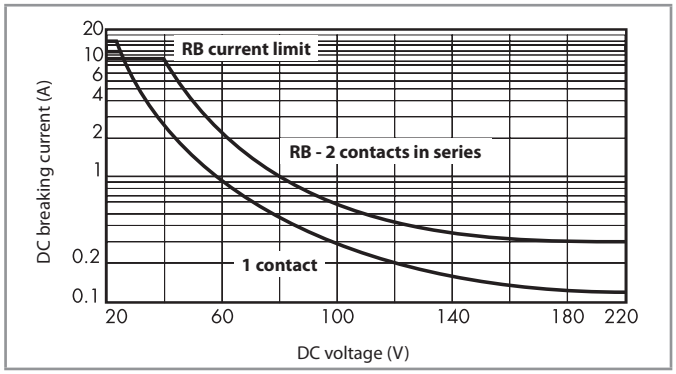
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Technical data

Insulation according to EN 61810-1			
		2 CO	4 CO
Nominal voltage of supply system	V AC	230/400	230/400
Rated insulation voltage	V AC	250	250
Pollution degree		2	2
Insulation between coil and contact set			
Type of insulation		Reinforced (8 mm)	Reinforced (8 mm)
Overvoltage category		III	III
Rated impulse voltage	kV (1.2/50 µs)	4	6
Dielectric strength	V AC	2000	3000
Insulation between adjacent contacts			
Type of insulation		Basic	Basic
Overvoltage category		III	III
Rated impulse voltage	kV (1.2/50 µs)	4	4
Dielectric strength	V AC	2000	2500
Insulation between open contacts			
Type of disconnection		Micro-disconnection	Micro-disconnection
Dielectric strength	V AC/kV (1.2/50 µs)	1000/1.5	1000/1.5
Conducted disturbance immunity			
Burst (5…50)ns, 5 kHz, on A1 - A2		EN 61000-4-4	level 4 (4 kV)
Surge (1.2/50 µs) on A1 - A2 (differential mode)		EN 61000-4-5	level 3 (2 kV)
Other data			
Bounce time: SET (NO) / RESET (NC)	ms	3/6	
Vibration resistance (5…55)Hz: NO/NC	g	3/6	
Shock resistance	g	15	
Max cable lenght for push-button connection	m	100	
Terminals		**Screw terminal**	
		Solid and stranded cable	
Max. wire size	mm^2	1 x 2.5 / 2 x 1.5	
	AWG	1 x 14 / 2 x 16	

Contact specification

RB - Maximum DC1 breaking capacity



- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of ≥ 100 · 10^3 can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load.
  Note: the release time for the load will be increased.

Coil specifications - Type RB.14

DC coil data

Nominal voltage U_N	Coil code	Operating range U_{min}	Operating range U_{max}	Rated coil consumption I at U_N	Rated power
V		V	V	mA	W
24	**9**.024	19.2	26.4	290	7
48	**9**.048	38.4	52.8	150	7
110…125	**9**.125	88	137.5	60	7
220…250	**9**.250	176	275	30	7

Coil specifications - Type RB.22

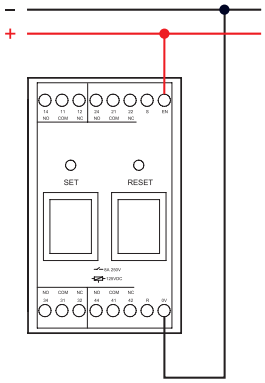
DC coil data

Nominal voltage U_N	Coil code	Operating range U_{min}	Operating range U_{max}	Rated coil consumption I at U_N	Rated power
V		V	V	mA	W
24	**9**.024	19.2	26.4	170	4
110…125	**9**.125	88	137.5	35	4
220…250	**9**.250	176	275	18	4

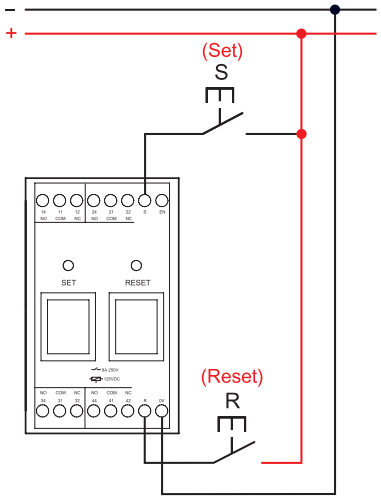
Wiring diagrams

A

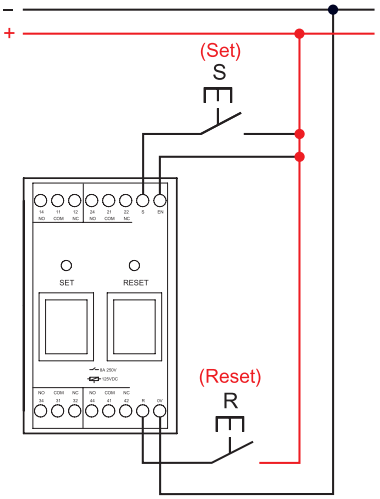
Type RB.14
Connection for only local push-buttons enable
EN = Enable - Positive voltage
0 V = Negative voltage



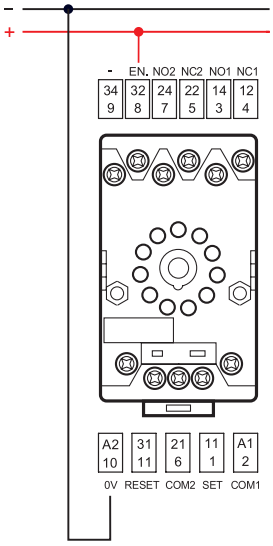
Type RB.14
Connetion for remote push-buttons enable



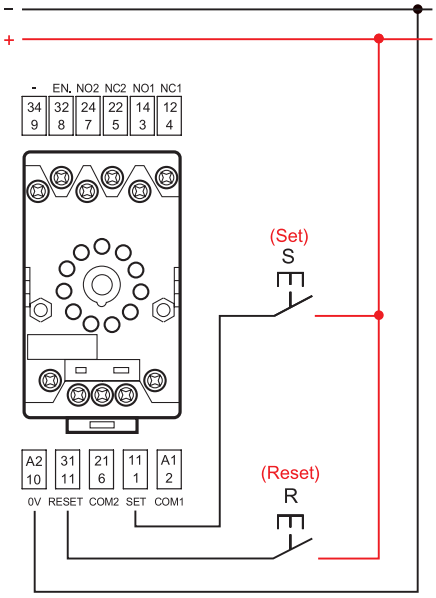
Type RB.14
Connetion for local and remote push-buttons enable



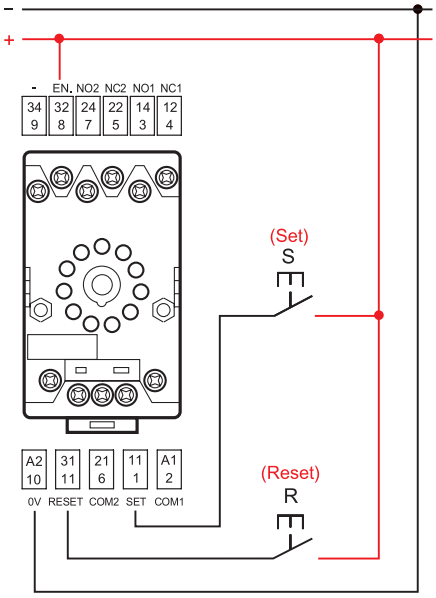
Type RB.22
Connection for only local push-buttons enable
EN = Enable - Positive voltage
0 V = Negative voltage



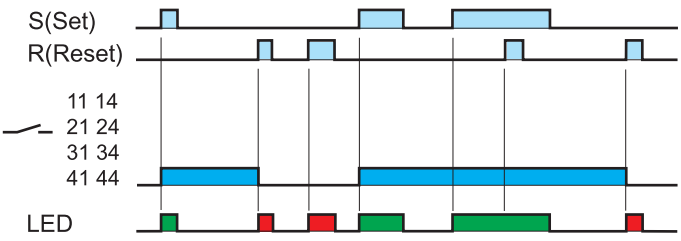
Type RB.22
Connetion for remote push-buttons enable



Type RB.22
Connetion for local and remote push-buttons enable



Functions

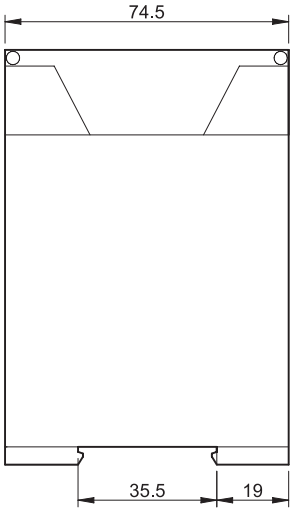


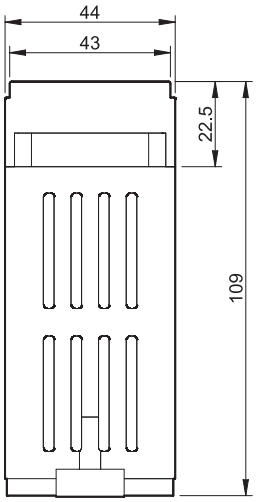
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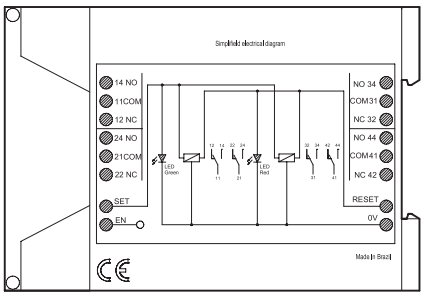
Outline drawing

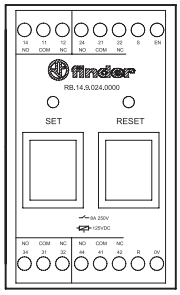
RB.14
Screw terminal











RB.22
Screw terminal



