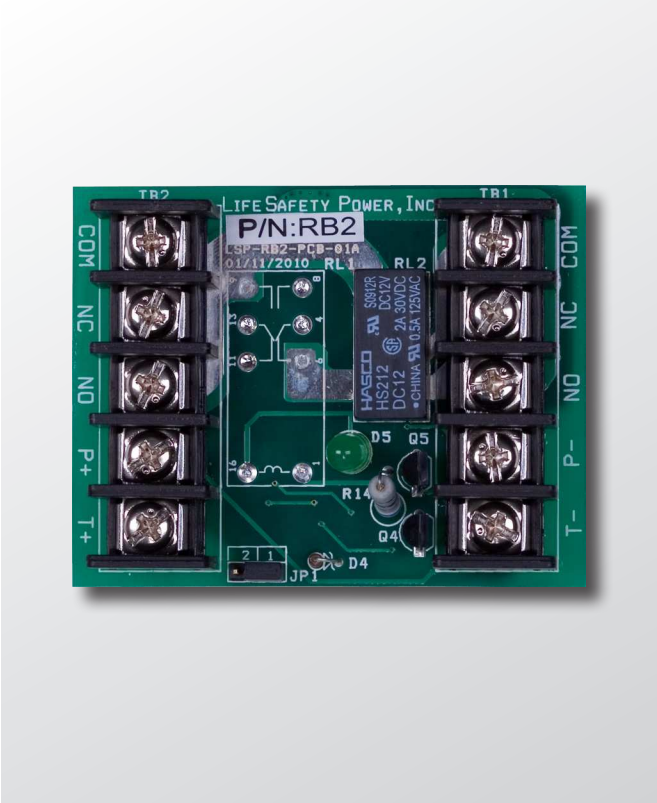
LifeSafety Power
WHEN IT MATTERS MOST

RB Series Relay Board

Installation Instructions

P03-025



DESCRIPTION

The LifeSafety Power RB Series of relays provides dual 2A, 5A, or 8A Form C dry relay contacts for general purpose usage. They are listed for use in access, fire, CCTV, burgular, or mass notification systems. They self-configure for either a 12 or 24VDC input and can be used either as a standard relay module, or as a sensitive trip relay (optional via jumper setting). Mounting is via SNAPTRACK™ for listed applications or via double stick tape for non-listed applications.

ORDERING

Model No.	Order No.
RB2 2A Relay	A25-001
RB5 5A Relay	A25-002
RB8 8A Relay	A25-003

AGENCY LISTINGS

USA

UL 294 UL 1481
UL 603 UL 2044
UL 864 UL 2572
UL 1076
FCC Part 15, Subpart B
CSFM Approved

CANADA

ULC S318
ULC S319
ULC S527
CSA C22.2 #107.1
CSA 22.2 #60950
Ontario ESA

SPECIFICATIONS

Model	Contact Rating	Input Voltage	Maximum Current Draw		Sensitive Trip Levels	
			Active	Inactive (Sensitive Trip Mode)	Positive Trip	Negative Trip
RB2	2A	12VDC or 24VDC	25mA	7mA	>5V	<1V
RB5	5A	12VDC or 24VDC	50mA	7mA	>5V	<1V
RB8	8A	12VDC or 24VDC	50mA	7mA	>5V	<1V

MOUNTING

The RB series of relay modules may be mounted using either the included double-sided tape, or separately purchased 2TK SNAPTRACK. Listed applications **must** use 2TK SNAPTRACK for mounting in a metal enclosure to maintain listing.

To mount an RB relay module using the included double-sided tape, first select a location to mount the relay module and ensure the mounting surface is clean and free of dust, oil, or other contaminants. Ensure the back of the RB relay board is also clean. Remove the backing from one side of each piece of tape and stick to the bottom of the RB relay board under the terminal strips. Remove the backing from the other side of both pieces of tape and stick the relay to the mounting surface, pressing firmly to ensure thorough adhesion.

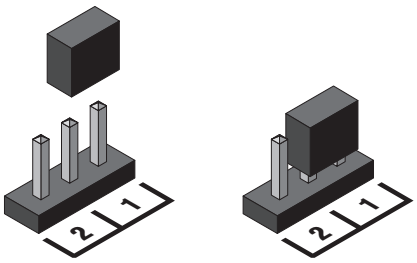
To mount an RB relay module using SNAPTRACK, first cut an appropriate length of 2TK SNAPTRACK for the relay(s) being mounted. Mark and predrill a minimum of two mounting holes within the slots of the SNAPTRACK. Attach the SNAPTRACK to the mounting surface using hardware appropriate for the surface, ensuring the heads of the mounting hardware will not hit the bottom of the RB board when installed. Snap the RB board(s) into the grooves of the SNAPTRACK.

JUMPER SETUP

The RB relay board has one jumper (JP1) to configure the relay for conventional operation or sensitive trip.

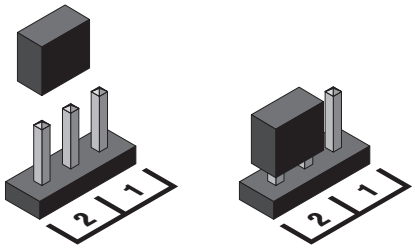
Position 1 Conventional

When JP1 is in position 1, the relay will activate when 12 or 24VDC is placed across the P+ and P– terminals.



Position 2 Sensitive Trip

When JP1 is in position 2, the RB board requires a constant 12 or 24VDC across the P+ and P– terminals, but the relay will not activate until a valid trip signal is received on either the T+ or T– terminal. See the Wiring section for more information.



WIRING

All terminals accept AWG12 to AWG22 wire.

P+ and P– Terminals

The main power connection for the RB relay board. These terminals accept 12VDC or 24VDC. The relay self-configures for the input voltage – no adjustment or jumper change is required.

T+ Terminal

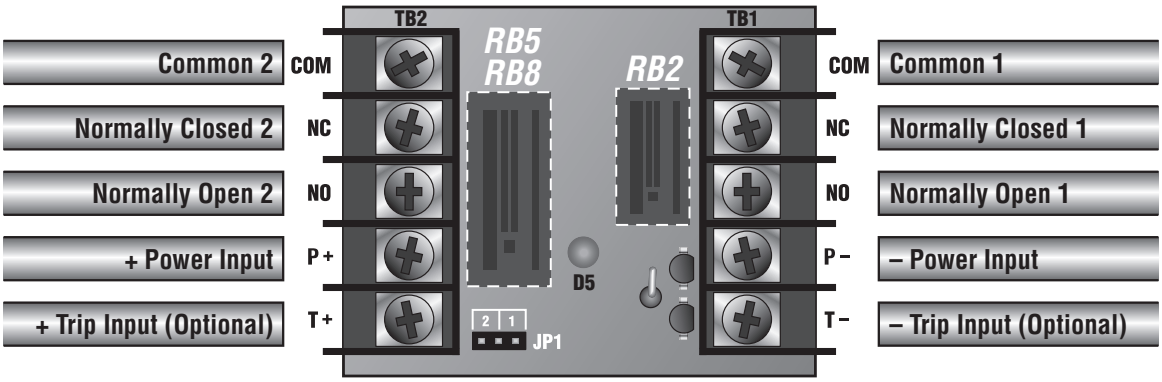
The Positive trip input when the relay is used in sensitive trip mode. If the relay is being used in conventional mode, this terminal should be left open (no connection). When in sensitive trip mode, a positive voltage placed on this terminal will activate the relay.

T– Terminal

The Negative trip input when the relay is used in sensitive trip mode. If the relay is being used in conventional mode, this terminal should be left open (no connection). When in sensitive trip mode, placing DC Common (P–) on this terminal will activate the relay.

COM, NC, and NO Terminals

The relay contacts. The RB relay board has two separate Form C relay contacts (DPDT) – one associated with each terminal strip bank.



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