



**RDL**<sup>®</sup>  
Radio Design Labs

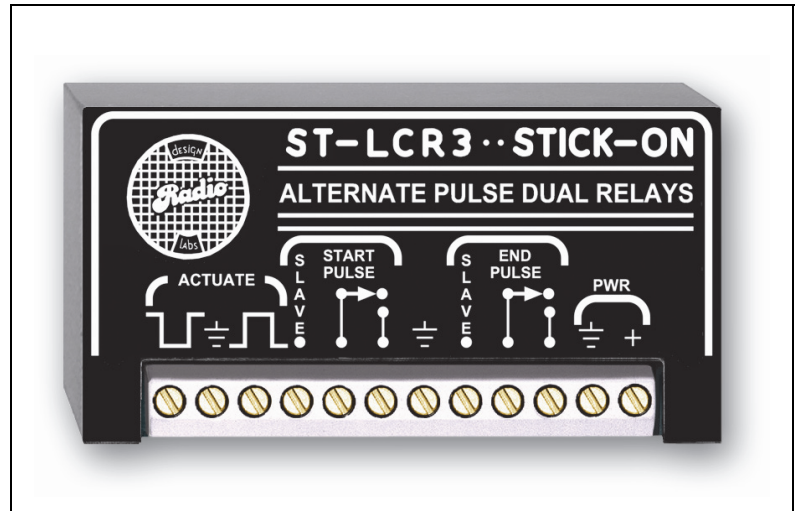
SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

## STICK-ON<sup>®</sup> SERIES

### Model ST-LCR3

### Alternate Pulse Dual Relays

- Pulse at the Start of a Logic Signal
- Pulse at the End of a Logic Signal
- Relay Contact and Open-Collector Pulse
- Active High or Active Low Inputs
- Input Control Voltage From 3.3 to 24 Vdc
- Control from Switch, Pushbutton, or Logic Circuits



The ST-LCR3 Alternate Pulse Dual Relays are part of the group of products in the STICK-ON series by Radio Design Labs. These products are designed for quick, convenient installation, and reliable operation with a variety of control input options. STICK-ONS are designed, built and rated for continuous duty in professional A/V systems.

**APPLICATION:** The ST-LCR3 is ideally suited to applications where momentary pulses are needed from a single control signal. The module provides a momentary pulse when a logic signal at its input first becomes active. A separate momentary pulse is provided when the logic signal at the module input becomes inactive.

Two logic inputs are available on the ST-LCR3. Either of these inputs may be used. Terminal 1 is internally pulled high to +5 Vdc. This input becomes active when an external closure or open-collector pulls the terminal to ground. The external switching device does not need to pull the terminal high, however the terminal may be pulled high with any voltage from +5 Vdc to +24 Vdc without any risk of damage to the ST-LCR3 input. Terminal 3 is internally pulled to ground. This input becomes active when an external closure or logic device applies a positive voltage from +5 Vdc to +24 Vdc.

When the input being used first becomes active the **START PULSE** output from the module is triggered. When the input first becomes inactive (after first being active) the **END PULSE** output from the module is triggered. Both the start and end pulses have a nominal duration of 250 ms. LED indicators show when the start and end pulses are active.

Each pulse output provides both an open-collector **SLAVE** terminal and relay contacts. The **SLAVE** terminal may be used to control other RDL modules and a variety of other equipment. The relay contacts may be used to control modules or equipment that do not operate from open-collector control.

The module operates from a ground-referenced 24 Vdc power supply.

The wide range of input voltages allows the ST-LCR3 to be controlled from a variety of modules, equipment or switches. The ST-LCR3 is ideal in most applications requiring a control pulse at the beginning of a switched signal, at the end of a switched signal, or at both the beginning and end of a switched control signal.

Use the ST-LCR3 individually, or combine it with other RDL products as part of a complete audio/video system.

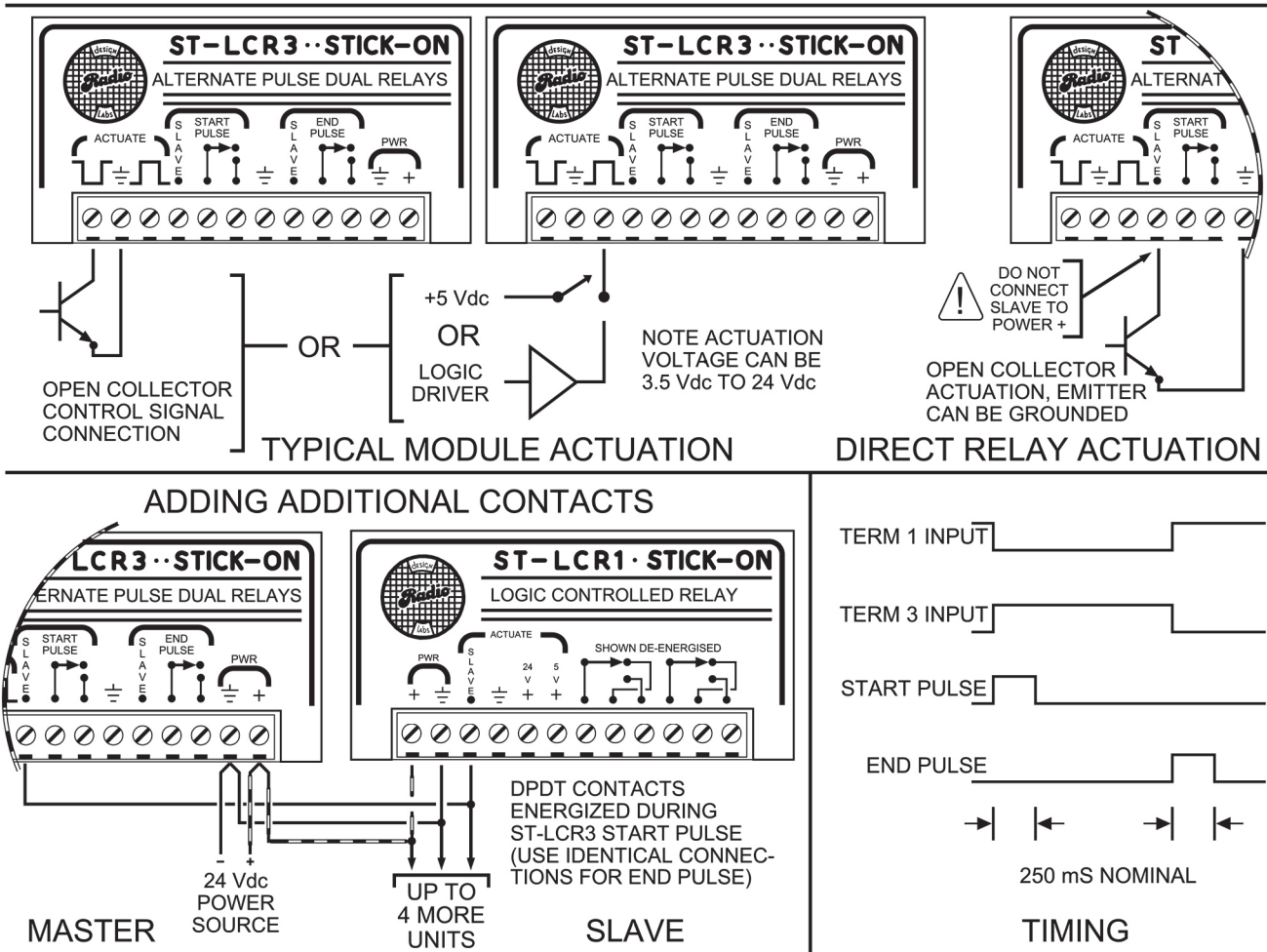
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### Alternate Pulse Dual Relays

## Installation/Operation

**CE** Declaration of Conformity available from rdlnet.com. Sole EMC specifications provided on product package. Specifications are subject to change without notice.



### TYPICAL PERFORMANCE

Inputs (2):	Logic High or Logic Low (Low = ground, < 1 mA; High = 5 Vdc to 24 Vdc)
Outputs (2):	Open collector @ 25 mA suitable to drive indicators or slave LCRs.
Indicators (2):	Pulse active LEDs
Relay Contacts (2):	Single-Pole, Single-Throw; High-reliability; 1,000,000 operations
Maximum Switching Power:	60 W (220 Vdc, 125 Vac, 2 A)
Ambient Operating Environment:	0° C to 55° C
Power Requirement:	GROUND-REFERENCED, 24 Vdc @ 100 mA (assuming 20 mA max load at <b>SLAVE</b> output)

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