



The Falcon Relay Replicator (RR) converts digital dry contact inputs into multiple isolated digital dry contact outputs. This allows digital dry contact alarm signals to be connected to multiple alarm monitoring systems. The Relay Replicator interfaces with any equipment, device, monitoring system, and/or panel that accepts digital dry contact inputs.

Many different types of equipment and devices use dry contact outputs to send alarm signals to remote panels, remote monitoring systems, or Building Management Systems (BMS). These dry contact outputs are designed to be wired to one remote system. However, users often require a dry contact output to be wired to two or more systems.

The dilemma is that wiring a single Form C output relay to two remote panels can damage the remote panels' internal components. Therefore, the signal must be split into two electrically isolated outputs before it can be sent to multiple remote panels – a Relay Replicator solves this dilemma.

The RR Series includes the following configurations: 1x2 (RA1x2), 5x10 (RR5x10), 10x20 (RR10x20), and 20x40 (RR20x40). Inputs can be daisy-chained as additional inputs to provide additional sets of isolated relay outputs. Power supplies are not included and may be purchased separately.

Key Features & Benefits

- Duplicates and isolates digital dry contact inputs
- Allows simultaneous alarms and other dry contact signals to be received in multiple locations
- Replicates signals safely without damaging remote panels or other equipment
- Enables BMS integration
- Custom configurations are also available upon request
- RoHS compliant

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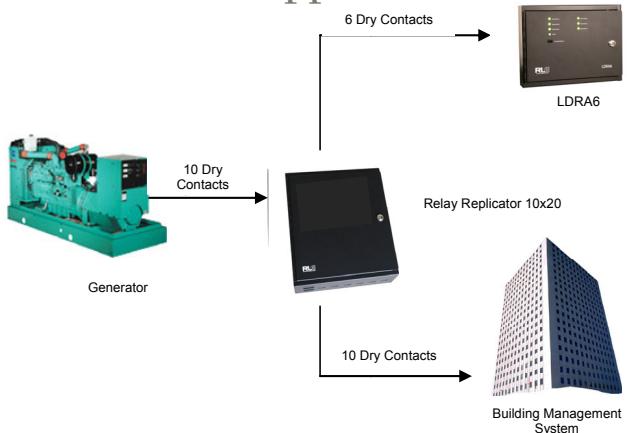
Specifications

Power	
RR5x10, RR10x20*	24VAC/VDC ($\pm 10\%$) @ 500mA max.; requires power supply: WA-DC-24-ST (not included)
RR5x10-48*	48VAC/VDC ($\pm 10\%$) @ 250mA max.; requires power supply (not included)
RR10x20-48*	48VAC/VDC ($\pm 10\%$) @ 250mA max.; requires power supply (not included)
RR20x40	100/120/240VAC @ 500mA max., 50/60Hz; hardwired power supply
Relay Outputs	
RR5x10	10 Form A, 1A @24VDC, 0.5A resistive @120VAC
RR10x20	20 Form A, 1A @24VDC, 0.5A resistive @120VAC
RR20x40	40 Form A, 1A @24VDC, 0.5A resistive @120VAC
Isolation	1000VRms
Operating Environment	
Temperature	32°F to 122°F (0°C to 50°C)
Humidity	5% to 95% RH, non-condensing
Altitude	15,000ft (4,572m) max.
Storage Environment	-4°F to 158°F (-20°C to 70°C)
Dimensions	
RR5x10	10.5"W x 8.0"H x 2.0"D (267mmW x 203mmH x 51mmD)
RR10x20	10.5"W x 8.0"H x 2.0"D (267mmW x 203mmH x 51mmD)
RR20x40	12.0"W x 14.0"H x 4.0"D (305mmW x 356mmH x 102mmD)
Weight	
RR5x10, RR10x20	5.0 lbs. (2.27kg)
RR20x40	12.0 lbs (5.45kg)
Mounting	Vertical wall mount
Certifications	CE; RoHS compliant

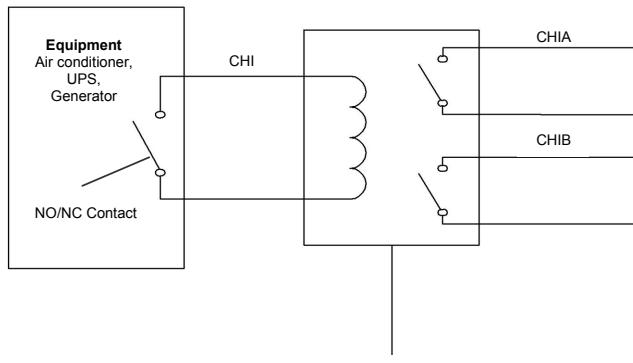


*Other voltages available upon request

Illustration of Application



Schematic



Scenario: A generator has ten dry contact outputs. A facility manager wants to wire these dry contact outputs to a SeaHawk LDRA6 panel and to the BMS.

Solution: A 10x20 Relay Replicator enables this application. The ten dry contact outputs are wired from the generator to the RR10x20. The RR10x20 provides two electrically isolated sets of ten digital dry contact outputs. Six outputs are wired to the LDRA6; the second set of ten outputs is wired to the BMS.



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