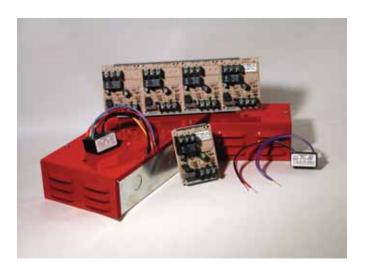


Multi-Voltage Conventional Relays

System Sensor's multi-voltage conventional relays are used for high-current switching applications such as fan and damper assembly control, door control, air handling unit controls, and other types of system interfacing.



Features

- Multi-voltage operation
- Activation LEDs
- Easy and flexible installation
- Reliable and robust design
- Multipurpose field installations
- Multi-voltage relays with terminal strip field wiring connections, mounting track, and hardware for R-10TA/20TA and R-14TA/24TA
- Removable front cover on steel enclosure for R-10EA/R-20EA and R-14A/R-24EA, which mount inside the enclosure
- LED viewing hole on top of the steel enclosure's cover
- Extra pair of wires for redundant power input on PR-3A
- Terminal strip field wiring connections, mounting track, and hardware

The R-10TA, R-20TA, R-14TA, and the R-24TA models are

multi-voltage relays with terminal strip field wiring connections, mounting track, and hardware. The R-10TA is a single FORM–C (SPDT) relay with a red activation LED, and the R-14TA is a four-gang 1 FORM–C (SPDT) relay with four red activation LEDs. The R-20TA is a single 2 FORM–C (DPDT) relay with a red activation LED, and the R-24TA is a four-gang 2 FORM–C (DPDT) relay with four red activation LEDs.

The R-10EA/R-20EA and R-14EA/R-24EA are similar to the T-series track mount relays, but they are mounted into a steel enclosure. The enclosure has a removable front cover that provides easy access and an LED viewing hole on the top of the cover.

PR-1A/PR-2A/PR-3A are epoxy encapsulated multi-voltage relays. They are single-pole double-throw relays that use a red LED as a visible indication of relay coil energization. PR–3A is identical to PR–2A, except it has an extra pair of wires for redundant power input.

Model EOLR-1A is an epoxy encapsulated, single-pole singlethrow, normally open relay that can be used as an end of line device in fire alarm systems, e.g. to supervise power supplies.

Agency Listings



Multi-Voltage Conventional Relay Specifications

y	
Specifications: R-10TA/R-	14TA/R-20TA/R-24TA
Operating Voltage	18 – 35 VDC, 18 – 35 VAC, 115 VAC, 230 VAC
Operating Current	20 mA DC max. @ 24 VDC, 24 VAC, 115 VAC, 230 VAC (R-10T/R-14T) 40 mA DC max. @ 24 VDC, 24 VAC, 115 VAC, 230 VAC (R-20T/R-24T)
Operating Temperature	–40°C to 70°C (–40°F to 158°F)
Humidity Range	10% – 93% non-condensing
Dimensions	R-10TA/R-20TA: 6.3mm (2.5 ")L × 86mm (3.35 ")W × 30mm (1.2 ")H R-14TA/R-24TA: 250mm (10 ")L × 85mm (3.35 ") W × 30mm(1.2 ")H
Contact Ratings	24 VDC: 7 A with L/R = 5 mS 120 VAC: 10 A 120 VAC: 1/6 HP
	230 VAC: 7 A
Specifications: R-10EA/R-	
Specifications: R-10EA/R- Operating Voltage	
•	14EA/ R-20EA/R-24EA
Operating Voltage	14EA/ R-20EA/R-24EA 18 – 35 VDC, 18 – 35 VAC, 115 VAC, 230 VAC 20 mA DC max. @ 24 VDC, 24 VAC, 115 VAC, 230 VAC (R-10EA/R-14EA) 40 mA DC max. @ 24 VDC, 24 VAC, 115 VAC,
Operating Voltage Operating Current	14EA/ R-20EA/R-24EA 18 – 35 VDC, 18 – 35 VAC, 115 VAC, 230 VAC 20 mA DC max. @ 24 VDC, 24 VAC, 115 VAC, 230 VAC (R-10EA/R-14EA) 40 mA DC max. @ 24 VDC, 24 VAC, 115 VAC, 230 VAC (R-20EA/R-24EA)
Operating Voltage Operating Current Operating Temperature	14EA/ R-20EA/R-24EA 18 – 35 VDC, 18 – 35 VAC, 115 VAC, 230 VAC 20 mA DC max. @ 24 VDC, 24 VAC, 115 VAC, 230 VAC (R-10EA/R-14EA) 40 mA DC max. @ 24 VDC, 24 VAC, 115 VAC, 230 VAC (R-20EA/R-24EA) -40°C to 70°C (40°F to 158°F)

Specifications: PR-1A	
Operating Voltage	18 – 35 VDC, 18 – 35 VAC, 120 VAC
Operating Current	15 mA DC max. @ 24 VDC, 24 VAC, 120 VAC
Operating Temperature	–40°C to 70°C (–40°F to 158°F)
Humidity Range	10 – 93% RH
Wire Length	203mm (8″) minimum
Dimensions	22mm (0.87") H × 55mm (2.01")W × 36mm (1.42")D
Contact Ratings	24 VDC: 7 A with L/R = 5 mS 120 VAC: 7 A max. (0.35 PF) 250 VAC: 10 A resistive 30 VDC: 10 A resistive
Specifications: PR-2A/PR-3A	
Operating Voltage	10 to 40 VDC
Operating Current	30 mA DC max.
Operating Temperature	–40°C to 70°C (–40°F to 158°F)
Humidity Range	10 – 93% RH
Wire Length	203mm (8″) minimum
Dimensions	23mm (0.91) "H × 42mm (1.65")W × 31mm (1.22")D
Contact Ratings	120 VAC: 10 A max. (resistive load) 120 VAC: 7 A max. (0.35 PF) 250 VAC: 10 A max. (resistive load) 30 VDC: 10 A max. (resistive load)
Specifications: EOLR-1A	
Operating Voltage	9 to 40 VDC
Operating Current	20 mA DC max.
Operating Temperature	–30°C to 60°C (–22°F to 140°F)
Humidity Range	10 – 93% RH
Wire Length	203mm (8″) minimum
Contact Ratings	120 VAC: 0.5 A max. (resistive load) 30 VDC: 3 A max. (resistive load)



PR-1A



EOLR-1A



PR-3A



R-10EA & R-20EA Enclosure

PR-2A



R-10TA



R-14TA





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