

Z-one™ Relay single zone switching relay

ZSR101



01284/14 NA



Function

The ZSR101 single zone switching relay is operated by low voltage thermostats. The ZSR101 single zone switching relay incorporates Power In, Relay 1 and Relay 2 connection terminals to provide a convenient and cost effective way to control a circulator and a boiler operating control in a single zone hydronic heating system. The ZSR101 single zone switching relay saves hours in installation time and provides a clean and professional installation.

Features

- Compatible with 2, 3 and 4-wire thermostats or other low voltage controllers with switching action
- 120 VAC input
- Heavy duty, sealed, DPDT, fuse protected relay (with spare fuse)
- Two outputs (Relay 1 and Relay 2) for operating 120 VAC pump with boiler enable, or two devices without boiler enable
- 5 A capacity each relay - 10 A total
- Convenient R,W,C and T,T,COM dual labeling at thermostat terminals
- Rear knock-outs for mounting onto 4" x 4" junction box
- High capacity 6 VA transformer
- Automatic resettable fuse on 24 V circuit
- Simplified wiring with pre-installed jumper
- Large screw terminals. On-board ground terminals
- Front panel LED indicator light for functional status
- 100% factory tested with 3 year warranty
- ETL certified to CSA and UL standards

Product range

Code **ZSR101** Z-one™ Relay switching relaysingle zone

Technical specifications

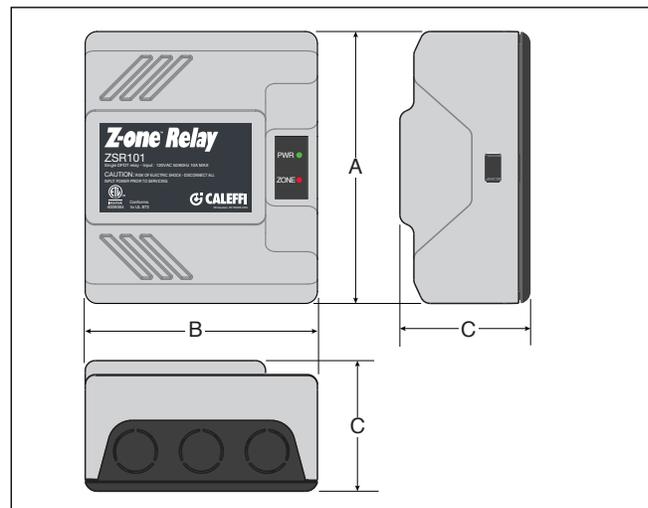
Materials

Housing plastic: ABS
 Front display lights: LED
 Electrical knockouts: (6) 1/2" size

Performance

Power supply: 120 VAC, 50/60 Hz
 Transformer voltage: 24 VAC
 Maximum transformer load: 6 VA
 Temperature limits for:
 Shipping and storage max: 110°F (43°C)
 Maximum operating: 110°F (43°C)
 Maximum humidity: 90% non-condensing
 Electrical switch rating: 10A Max combined
 Replaceable fuses: Type 2AG, 5A slow blow
 Approvals: ETL Certified to CSA C22-2 No.24, Conforms to UL873

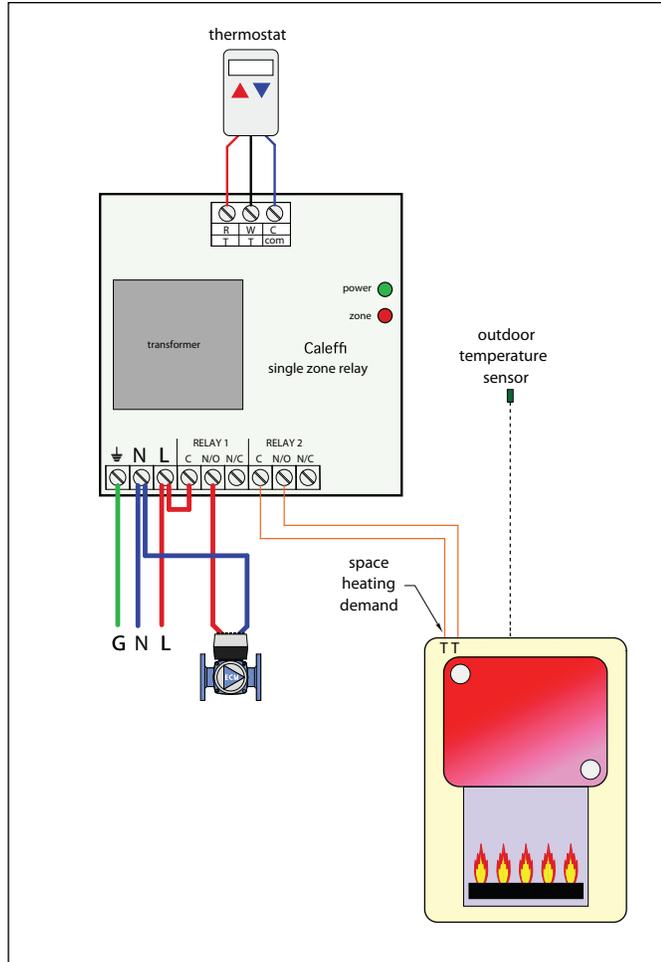
Dimensions



Code	Zones	A	B	C	Wgt. (lbs)
ZSR101	1	5 3/8"	4 5/8"	2 5/8"	1.1

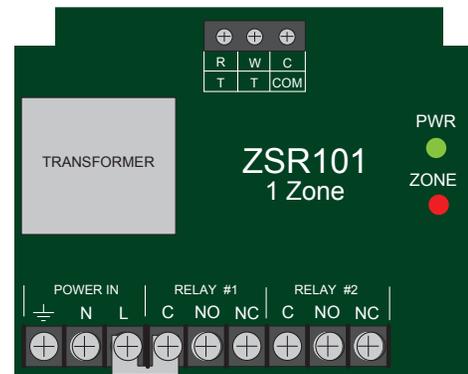
Operating principles (illustrative example)

When a zone has a demand from a thermostat (T T or R W) the relay will close sending 120 VAC to Relay 1 NO terminal switching ON the pump, Relay 2 closes C to NO dry contact, signaling the boiler of a heating demand. Refer to Z-one™ Relay Wiring Guide for more system wiring diagrams.



R, W, C and T, T, COM dual labeling at thermostat terminals. Compatible with low voltage 2, 3, or 4 wire thermostats or any other low voltage devices having a switching action.

Large screw terminal connections makes wiring easy. Power IN 120V AC to N and L screw terminals with a factory installed jumper from L terminal to the C terminal of Relay 1 for simplified pump connection.



We reserve the right to change our products and their relevant technical data, contained in this publication, at any time and without prior notice.



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