



## Specification Sheet

# RFSR20

## Interact Ready RF Switch Relay

- Output control loads up to 20 A general purpose, 16 A electronic ballasts or 1.12 kW (1.5 hp) motor loads
- 0-10 V dimming control
- Plenum rated design with easy junction box mounting
- Universal Input Voltage 120/277/347 V<sub>ac</sub> (neutral required)
- Fails safe to 70% if communications are lost

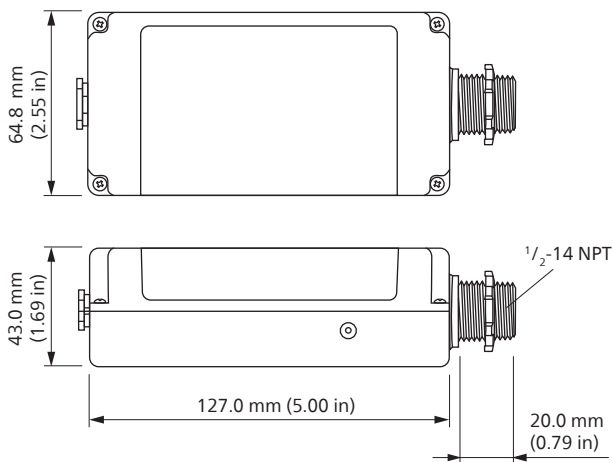
# RFSR20

## Product description

The RFSR20 RF Switch Relay with 0-10V control is an integral part of the Interact connected lighting system and offers a 120/277/347 V<sub>ac</sub>, 20 A relay control and continuous 0-10V dimming control of LED and non-LED loads.

The relay switchpack with 0-10V control also supports 20 A plug load control. The RFSR20 is powered by the 120/277/347 V<sub>ac</sub> circuit it is controlling and provides a simple 1/2" knockout mounting. The relay switchpack with 0-10V control operates on a wireless mesh network based on IEEE 802.15.4 standards.

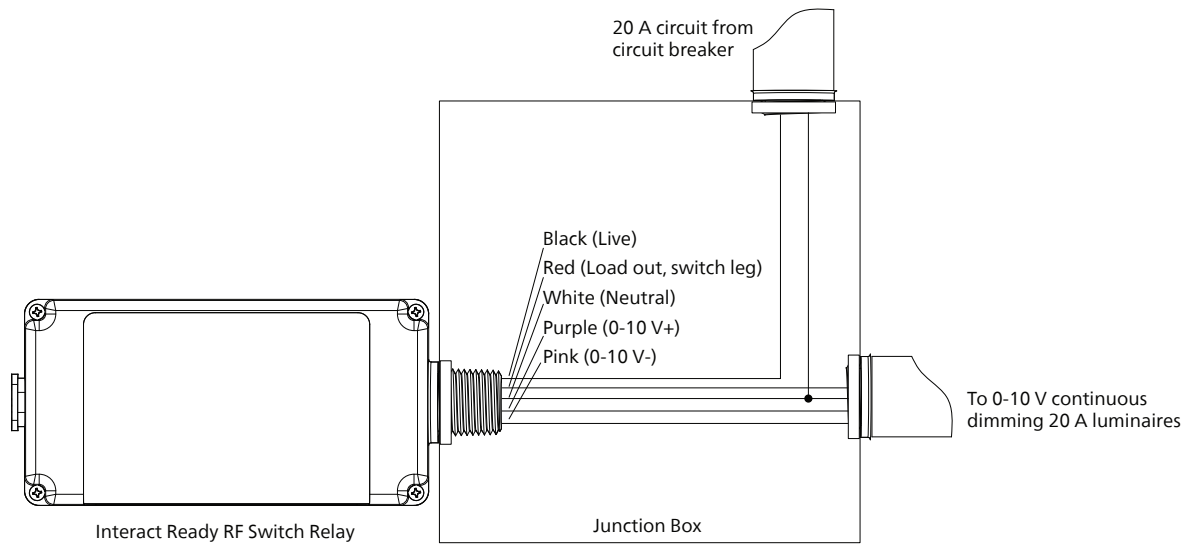
## Dimensions



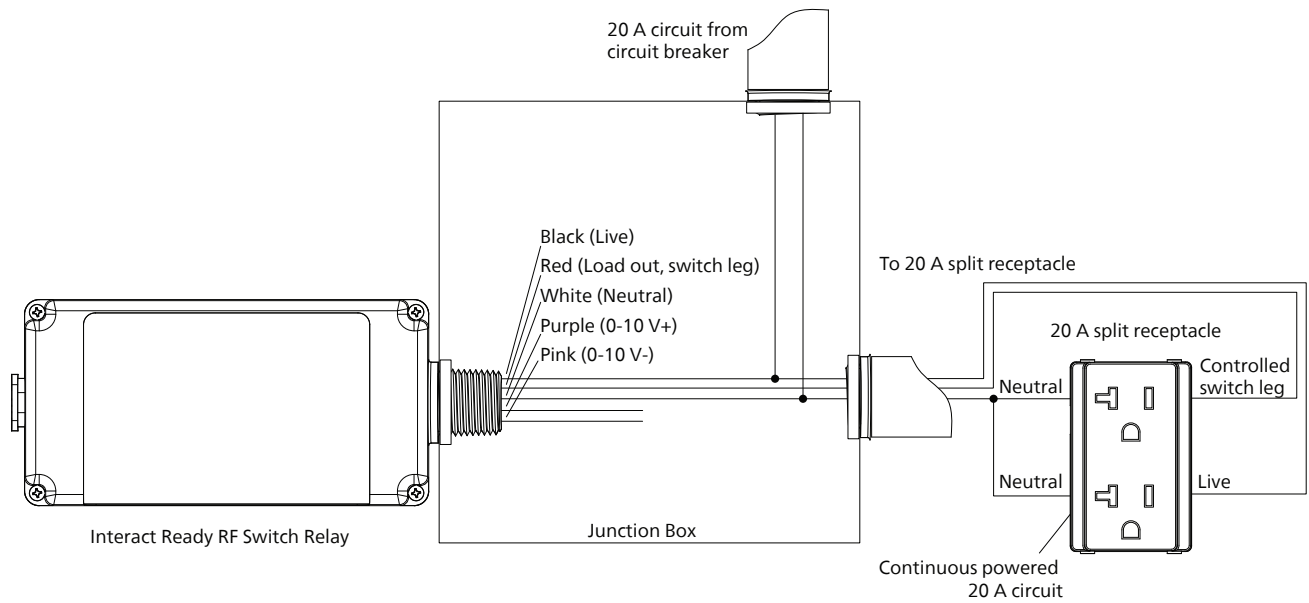
## Features and benefits

- The built-in relay is used to control plug loads or luminaires that are not equipped with a transceiver.
- Designed to operate on mains input voltages 120/277/347 V<sub>ac</sub>.
- Provides a simple 1/2" knockout mounting.
- The device is Interact ready and can be easily linked to a wireless standalone or connected lighting system.
- The device is easy to install and use. Additional information is available in the appropriate installation instructions.
- Designed with safety in mind: when communication is lost, the connected devices will be switched ON and the dimmer is set to a 70% light level.
- The commissioning button can be used to switch ON/OFF the relay, and allows to perform factory reset if necessary to add a relay to a new network.

### Wiring diagram 0-10 V dimming luminaire



### Wiring diagram split receptacle



# Specifications

## Electrical

### Supply options

|                   |  |
|-------------------|--|
| Input voltage     | 120/277/347 V <sub>ac</sub> ±10%, 50/60 Hz |
| Power consumption | Max. 6.9 W                                 |

### Output

|   |  |
|---|--|
| General purpose   | 120/277/347 V <sub>ac</sub> , 20 A             |
| Electronic ballast (LED load)                           | 120/277/347 V <sub>ac</sub> , 16 A             |
| Single class 2 0-10V dimming output (IEC 60929 Annex E) | sinks max. 0.12 A (max. 40 µA leakage to line) |
| 0-10V output  | up to 60 outputs with each a max. 2 mA load    |

## Wireless

|                   |               |
|-------------------|---------------|
| MRadio frequentie | 2.4 GHz       |
| Standard          | IEEE 802.15.4 |
| Transmitter power | +10 dBm       |

### Range

|               |   |
|---------------|---|
| Line of sight | 46 m (150 ft)                                   |
| Indoors       | 15 m (50 ft) with two walls between the devices |

## Physical

|                                    |   |
|------------------------------------|---|
| Dimensions (length, width, height) | 155.0 x 64.8 x 43.0 mm (6.10 x 2.55 x 1.69 in)  |
| Weight                             | 223 g (0.492 lb)  |
| Housing                            | Medium impact injection molded housing. ABS resin with 5 VA flame rating. Plenum rated for external junction box mounting with Teflon coated leads. |
| Color                              | Matte white   |
| Mounting                           | Mounts to the side of a 102 mm (4") square box via 13 mm (1/2") knockout  |

## Environment

|                         |                           |
|-------------------------|---------------------------|
| Temperature (operating) | 0 to 40 °C (32 to 104 °F) |
| Relative humidity       | 10 to 90%, non-condensing |
| Temperature (storage)   | 0 to 70 °C (32 to 158 °F) |

## Compliances and approvals

|                |                                 |
|----------------|---------------------------------|
| Certifications | UL, FCC                         |
| Manufacturing  | ISO 9001                        |
| Requirements   | ASHRAE Standard 90.1, IECC, CEC |



## Packing Data

| Type   | Dimensions  | Qty/Box | Material  | Weight (net)        | Weight (gross)      |
|--------|---|---------|-----------|---------------------|---------------------|
| RFSR20 | 155.0 x 64.8 x 43.0 mm<br>(6.10 x 2.55 x 1.69 in) | 1       | Cardboard | 223 g<br>(0.492 lb) | 261 g<br>(0.576 lb) |

## Ordering Data

| Type                   | MOQ | Ordering number | UPC code level 1 | UPC code level 3 | Catalog code |
|------------------------|-----|-----------------|------------------|------------------|--------------|
| RFSR20 RF Switch Relay | 1   | 9137 010 66813  | 046677584559     | 50046677584554   | RFSR20       |

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