

601R SmartSwitch™ Receiver (1-output, 1-transmitter)

FEATURES:

900 MHz Spread Spectrum Digital Reliability

Wavelength 70% shorter than 300 MHz provides greater site flexibility.

Data Encoding and Proprietary Protocol

Quick and Easy Installation

No FCC License Required

Compatibility: Compatible with Isaacs 600 and 1200 Series transmitters except 614T.

Output: 1 single-pole, double-throw actuation relay (1 A @ 120 VAC). 1 single-pole, double-throw fault relay (1 A @ 120 VAC). 1 single-pole, double-throw external interface relay provided (10 A @ 12 VDC).

Response: Instantaneous upon receipt of valid transmission.

Power Requirements: 11 – 14 VDC, 360 mA. 1 external power supply (120 VAC to 12 VDC, 725 mA) provided.

Power Consumption: 60 mA typical. 190 mA with both internal relays energized. 360 mA with both internal relays and supplied interface relay energized.

Operation: The 601R can be used only in a 1-transmitter to 1-receiver system. Receiver actuation relay provides local output of remote contact monitored by mated Isaacs transmitter. To the fault relay, receiver provides communications fault output after reception from transmitter, which sends status transmission every minute, has been lost for 1 – 2 hours. Receiver also provides fault relay output when voltage in transmitter battery falls below acceptable level. Operating range is dependent on site environmental factors unique to each installation such as ambient temperature, mounting height and its relation to obstructing terrain, foliage, or structures, and local 900 MHz noise level.

Operating Conditions : 0 – 95% relative humidity, non-condensing. 32°F to 122°F (0°C to 50°C).

In undocumented cold chamber testing of signal strength, there was no measurable degradation down to –20°C. Between –20°C and –30°C some degradation in measured signal strength was observed. Between –30°C and –40°C instances of operational failure due to non-fatal hardware failure were observed. By –40°C complete operational failure due to non-fatal hardware failure was observed. Normal operation resumed upon increase in temperature.

Radio: Narrow band, frequency hopping spread spectrum.

Frequency Range : 902 – 928 MHz.

*This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.*



Enclosure: DuPont® Imron® coated polyvinylchloride with 1 inch FNPT conduit fitting.

Dimensions (enclosure): 4.9 (diameter) x 11.0 inches (12.3 x 27.9 cm).

Weight: 2.5 lb (1.2 kg)



3380 Isaacs Avenue
Walla Walla, WA 99362-8017
Tel: 509.529.2286
Fax: 509.529.2291
Email: isaacs@isaacstech.com
Web: www.isaacstech.com