

605R SmartSwitch™ Receiver (1-output, 16-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.

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, 405 mA. 1 external power supply (120 VAC to 12 VDC, 725 mA) provided.

Power Consumption: 105 mA typical. 235 mA with both internal relays energized. 405 mA with both internal relays and supplied interface relay energized.

Operation: Receiver actuation relay provides local output of remote contact(s) monitored by mated Isaacs transmitter(s). LED's indicate status of receiver relay/transmitter contacts and transmitter faults. Receiver can respond to up to 16 different Isaacs 600 or 1200 Series transmitters for control of the actuation relay. To the fault relay, receiver can provide communications fault output after reception from any system transmitter has been lost for a specified time period. Receiver also provides fault relay output when voltage in any system transmitter battery falls below acceptable level. Receiver can respond to individual transmitter monitoring dual parallel contacts. 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.

Programmability: Actuation relay programmable as latch, follow (except with 614T), or 1 – 16 second momentary. Fault relay programmable separately as latch, follow, or 1 – 16 second momentary. Available periodic status transmission response windows range from 1 minute to 99 hours, or disabled. For systems utilizing individual transmitter(s) monitoring dual parallel contacts: one secondary output programmable to any fault relay; primary and secondary outputs from individual transmitter(s) combinable in actuation relay.



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: 2.9 lb (1.4 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