

612T SmartSwitch™ Handheld Transmitter

(2-button, 1-function)

FEATURES:

900 MHz Spread Spectrum Digital Reliability

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

Data Encoding and Proprietary Protocol

Small Size, Light Weight, includes Belt Clip

No FCC License Required

Compatibility: Compatible with Isaacs 600 Series, 1200 Series, and 737R receivers.

Power Supply: 3V lithium battery (Sanyo CR2 or Panasonic CR-2). 3 – 5 year expected battery life.

Input: Simultaneous press of both buttons closes normally open transmitter contacts; releasing one or both depressed button(s) opens contacts.

Transmission Delay: Up to 3 seconds if button press or release occurs during the ~ 3 second duration transmission routine of the preceding button release or press.

Operation: Simultaneous press of both buttons transmits *closed-contact* signal to energize one or more relay output(s) and visual display at its mated Isaacs receiver(s). Release of one or both depressed button(s) transmits *open-contact* signal which will de-energize receiver relay(s) programmed as follow. Periodic transmissions report status of contacts as well as battery voltage. Upon detection of low battery voltage, transmitter will operate for approximately 10 days without battery replacement before preemptive deactivation.

Expected Range: 2,000 feet, line-of-sight. Operating range is dependent on site environmental factors unique to each installation such as ambient temperature, height of transmitter 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: Available periodic status transmission intervals range from 10 seconds to 18 hours, or disabled.

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: NEMA 1 rated molded plastic.

Dimensions: 1.7 x 1.1 x 3.1 inches (4.2 x 2.8 x 7.9 cm).

Weight: 2 oz (57 g).



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