

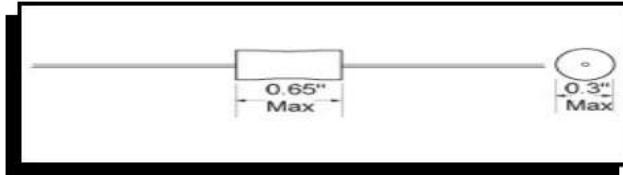
TLS-Z Series F Antenna Specification

The TLSZ Guardmaster Guardlocking switch utilizes a low frequency RFID to detect the presence of the locking actuator. This allows the device to securely detect whether the guard door is secured to the lock. The low frequency RFID detection is achieved by implementing the HTRC110 reader IC from NXP Semiconductors. The reader utilizes amplitude modulation to receive the actuator RFID tag in the 125 kHz frequency. For the antenna, since the TLSZ requires a very short sensing distance, the system is a passive RFID system with a simple small loop coil antenna in the form of a 1mH inductor coil that is directly soldered to the main TLSZ PCB.

Pictures and dimensions attached below.



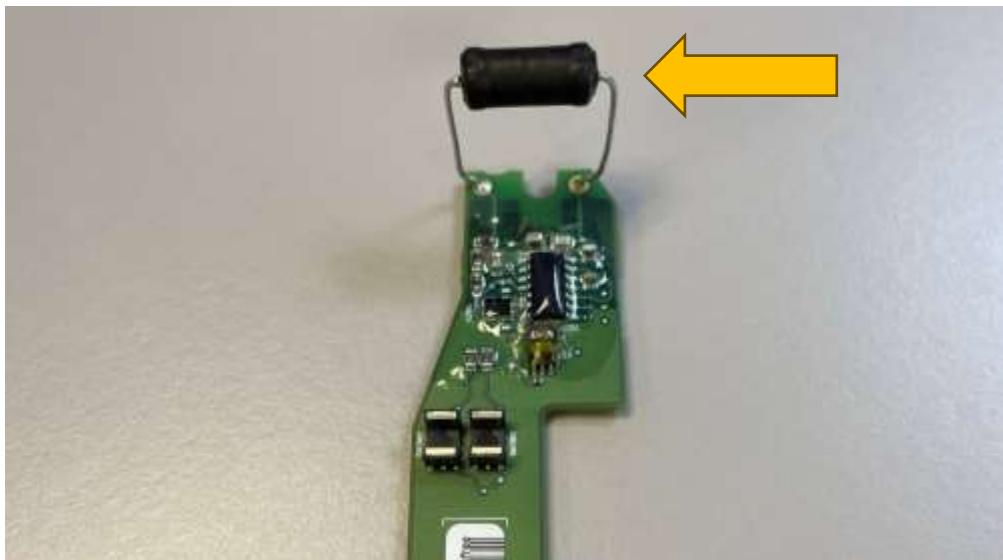
Wilco Corporation ES-8086-1%-LF



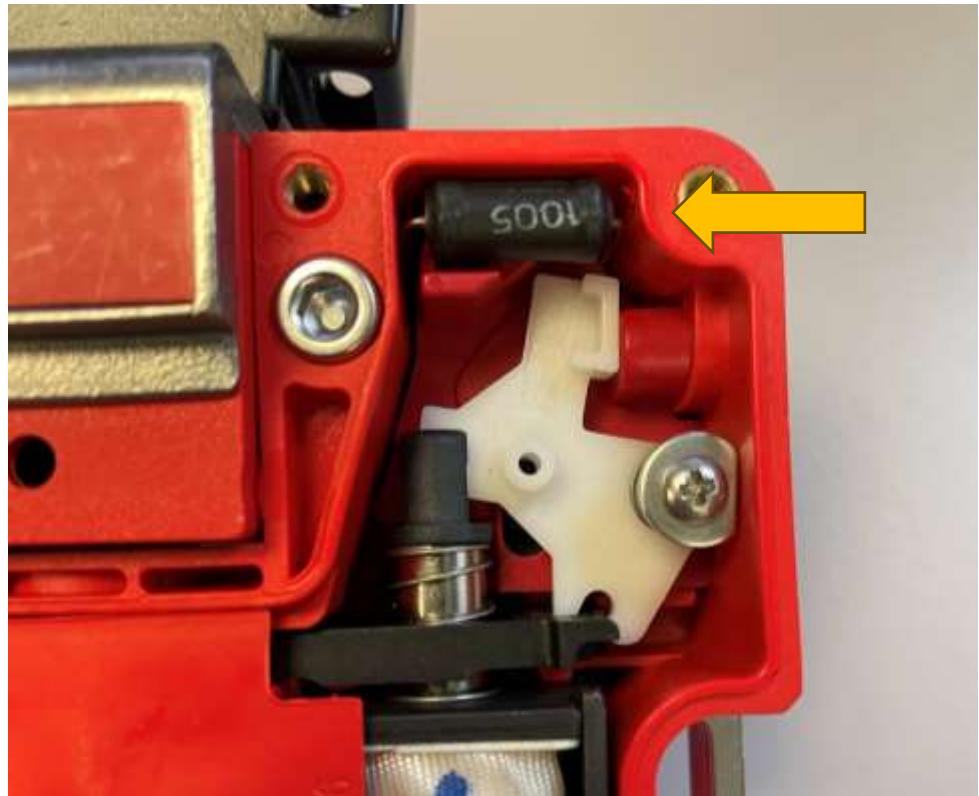
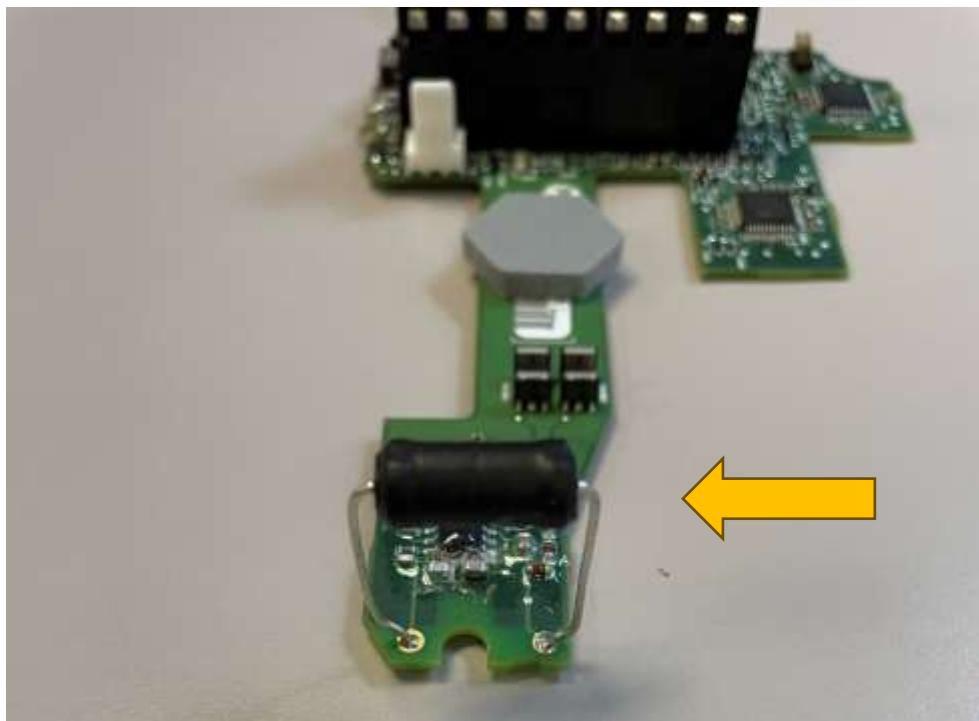
1005 uH +/- 1% @ 1 KHz 1000mV 2.30 ohms max
 Shrink Tube RoHS Compliant

Readings

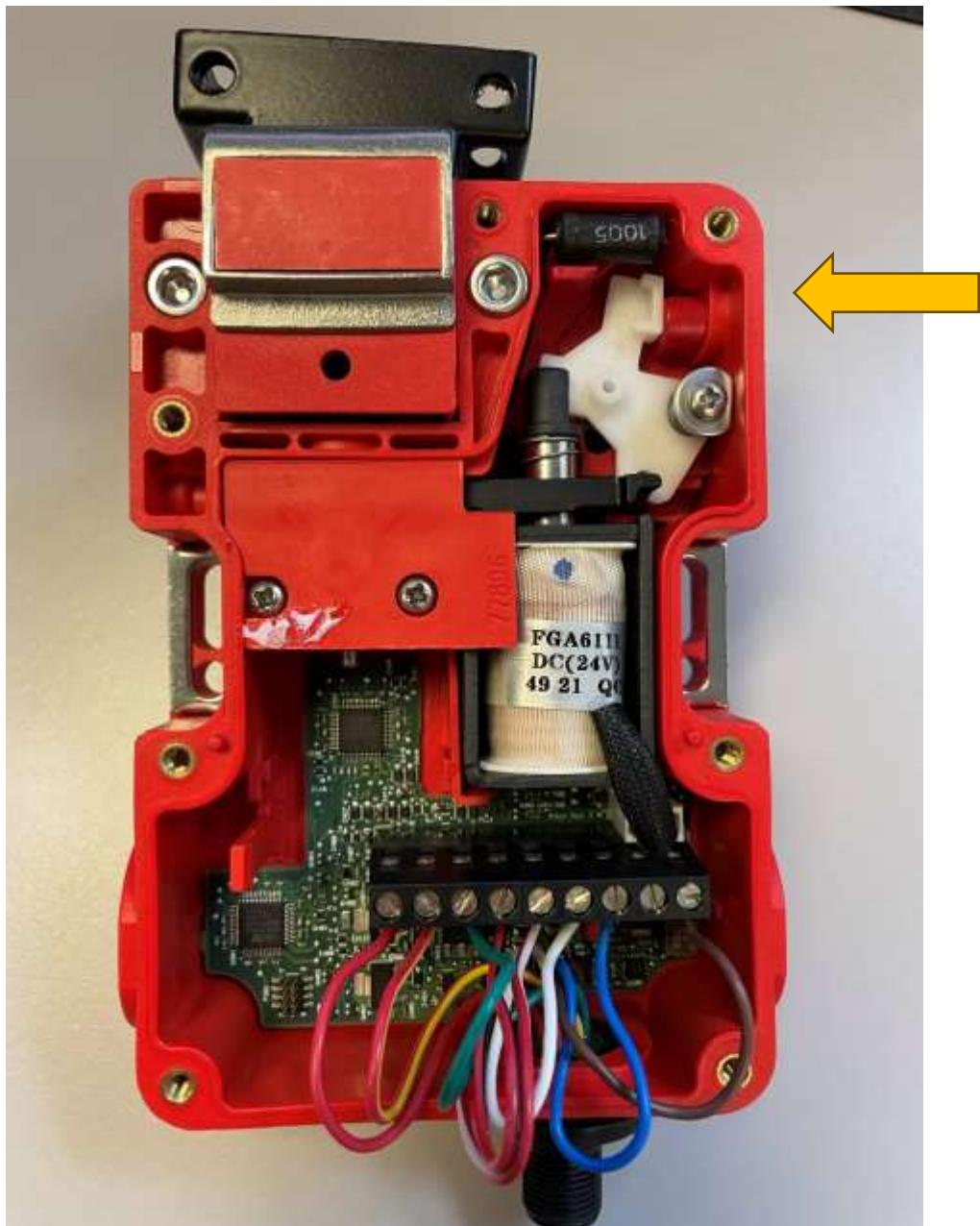
- #1 1002 uH 1.91 ohms .4 amps
- #2 1000 uH 1.89 ohms .4 amps
- #3 1008 uH 1.93 ohms .4 amps
- #4 1010 uH 1.92 ohms .4 amps
- #5 1005 uH 1.91 ohms .4 amps



Only radiated measurements are used to show compliance with FCC limits for fundamental and spurious emissions.



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