Functional Devices, Inc.
101 Commerce Drive
Sharpsville, IN 46068

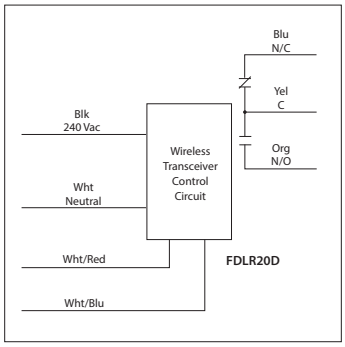
**Toll Free:** (800) 888-5538
**Office:** (765) 883-5538
**Fax:** (765) 883-7505

**Email:** sales@functionaldevices.com
**Website:** www.functionaldevices.com

# FDLR20D

Enclosed EnOcean® Enabled Wireless Relay Transceiver / Repeater 20 Amp SPDT, 240 Vac Power, with Dry Contact Input, 902 MHz

**Relay has built-in repeater function. Relay receives signal from wireless switch transmitter and rebroadcasts the signal to the next relay receiver.**




**20 AMP WIRELESS CONTROL RELAY**




c UL us LISTED

RoHS

MADE IN THE U.S.A.

enocean alliance Member

## Specifications

**# Relays & Contact Type:** One (1) SPDT Continuous Duty Coil
**Expected Relay Life:** 10 million cycles minimum mechanical
**Operating Temperature:** -30 to 140° F
**Humidity Range:** 5 to 95% (noncondensing)
**Red LED:** Relay Status / Learn Mode Status (Flashing)
**Dimensions:** 2.30˝ x 3.20˝ x 1.80˝ with .50˝ NPT Nipple
**Wires:** 16˝, 600V Rated
**Approvals:** UL Listed, UL916, C-UL, RoHS
**Agency Compliance:** FCCID: SZV-TCM320U
IC: 5713A-TCM320U
**Housing Rating:** UL Accepted for Use in Plenum, NEMA 1
**Gold Flash:** No
**Override Switch:** No
**Frequency:** 902 MHz
**Receiver Sensitivity:** -93 dBm typical
**Conducted Power:** 5 mW typical
**Built-in Switch Modes:** Alarm, Repeater, Delay, Rocker, Momentary, and Toggle

**Contact Ratings:**
20 Amp Resistive @ 277 Vac
20 Amp Ballast @ 277 Vac
16 Amp Electronic Ballast @ 277 Vac (N/O)
10 Amp Tungsten @ 120 Vac (N/O)
770 VA Pilot Duty @ 120 Vac
1,110 VA Pilot Duty @ 277 Vac
2 HP @ 277 Vac
1 HP @ 120 Vac

**Power Input Ratings:**
80 mA @ 240 Vac ; 60 Hz

**Notes:**
- Compatible with Enocean® 902 MHz Switches/Transmitters.
- Typical range: 50-150 ft.
  - Open area transmission could be farther. Consult factory for more information.
- Repeater function only rebroadcasts original EnOcean® transmission. Up to two repeaters can be used.
- Version 1.5 firmware or later implements Functional Devices, Inc.'s EnOcean® Manufacturer ID of 0x055.
- For setup instructions, see website for FDLR Series Application Manual: https://www.functionaldevices.com/downloads/bulletins/B2126_393251.pdf
- EEP A5-30-02