



CS3-LR

local radio communication option

The Calsense Local Radio communication option, model CS3-LR, enables Command Center Online to communicate with a controller through a local radio system. A local radio is a 2-watt, narrowband UHF 450-470 MHz radio modem.

description

A local radio system has a single or multiple local radio hub(s) and multiple controllers in the field with the local radio communication option. The hub manages data flow between the internet connected PC or device and surrounding controllers.

- Blanket your entire city or campus with wireless communication so your Calsense controllers can share a single central communication option
- Provides reliable long-range communications

local radio accessories

antennas

An antenna, purchased separately, is required to use the CS3-LR option for communication. Calsense offers three antennas, each designed to accommodate specific situations.

- The Calsense Stubby Antenna, model LR-STUBBY, is an omnidirectional, low-profile transit antenna designed for all environments and applications
- The Calsense Stick Antenna, model LR-STICK-X-YYY, is a fiberglass omnidirectional antenna used to extend the range of a local radio system and is often recommended for use with local radio hubs and repeaters. This antenna is available in 0-, 3-, 5-, and 7-dBi, represented by X in the part number. Specify LR frequency at time of purchase to ensure the antenna is tuned properly
- The Calsense Yagi Antenna, model LR-YAGI-X, is an aluminum directional antenna typically used to extend the communications range of a specific controller location. This antenna is available in 7- and 10-dBi, represented by X in the part number

Note: LMR-400-DB or LMR-600-DB cable is required if mounting a stick or yagi antenna.

optional equipment

- The Calsense Local Radio Frequency Filter, model LR-FILTER, is a cavity resonator used to help prevent interference from unwanted frequencies by filtering them out. An LR-FILTER is required when using a LR-STICK antenna and recommended when using an LR-YAGI.
- The Calsense Antenna Cable Surge Protector, model ANT-PROT, helps protect the RF filter, if installed, and the radio equipment from lightning strikes. An ANT-PROT is required when using an LR-STICK antenna and recommended when using an LR-YAGI.



technical specifications

wireless interface

- Frequency Range: 450 – 470 MHz
- Output Power: up to 2-watts
- Data Range: up to 70-miles, clear line of sight

environmental

- Operating Temperature: -30° to 60°C (-22° to 140°F)
- Relative Humidity: 0 to 95%, non-condensing

certifications

- Emissions: FCC, IC
- Safety: UL® Class 1, Div 2

warranty

- 2-year limited warranty

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