

EVO Radar Sensor Kit

EVO RADAR™

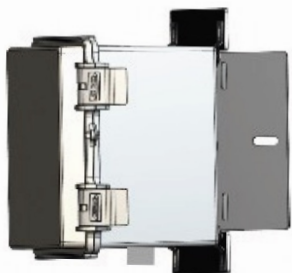
Sensor & Bracket

The sensor & bracket assembly has been designed for ease of field installation. The bracket consists of two main sections, the sensor section, and the pole-mount section. All components of this assembly are shipped to the customer pre-assembled, however, the pole mount section is easily dis-connected from the rest of the assembly so that it can be attached to the pole by itself. The sensor section is then easily slid over two mounting bolts and tightened to complete the basic installation. Once the basic installation is complete, additional horizontal and vertical adjustments to the sensor are accomplished by loosening the appropriate bolts, making the adjustments, then retightening the bolts.



J-Box

The EVO Radar system uses a 48 VDC, Power Line Communications (PLC) system to supply power and Ethernet data to the radar sensor over shielded AWG 14-2 cable. This PLC system allows the user to place radar sensors a up to of 1000 feet from the traffic cabinet. The J-Box assembly provides the interface between the PLC cable and the Power over Ethernet (PoE) interface used by the radar sensors. The processor in the J-Box separates the 48VDC from the PLC signal and converts the modulated PLC information into standard Ethernet, PoE, signals that can be accepted by the radar sensor.



Specifications

Bracket Material	0.125" hardened aluminum with white powder coat paint
Hardware	Stainless Steel
Box Material	Polycarbonate
J-Box / PLC Communications Range	1000 ft.
Communications Bit Rate	Up to 88 Mbps
Required PLC Cable	IMSA Specification 50-2, Loop Lead-In Cable, (Shielded, 14 AWG 2 Cond, Stranded Tinned Copper)

ORDER

EVOR143	1001-503	EVO Radar Sensor Kit
EVOCBL-05	158-0034	500' Shielded AWG 14/2 Cable
EVOCBL-10	158-0035	1000' Shielded AWG 14/2 Cable

*Both the **Sensor & Bracket**, and the **J-Box** assemblies can be mounted to a pole using either stainless steel banding straps, for metal poles, or lag bolts for wooden poles. Once both assemblies are properly mounted, the sensor to J-Box communications cable and the PLC cable, from the Hub, are easily terminated in the J-Box.*