



EMTRAC

Optical Sensors ST-9730, ST-9731, ST-9732

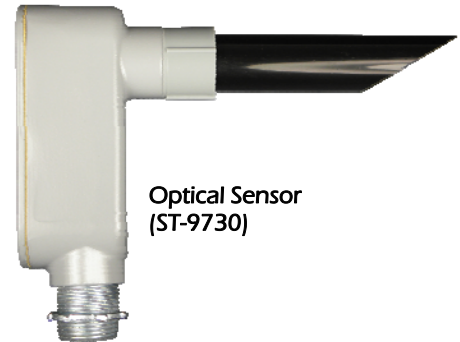
Data Sheet

The EMTRAC Optical Sensor detects optical strobe signals from vehicle-mounted emitters and outputs the interpreted signals through the attached Sensor Cable (ST-9734) to the cabinet-mounted EMTRAC Priority Detector.

The Optical Sensor may be mounted on mast arms, span wire, or other appropriate structure with a direct, line-of-sight view of the intersection approach.

EMTRAC Optical Sensors detect optical pulses from both EMTRAC and non-EMTRAC vehicle emitters. The Optical Sensor is fully compliant with NEMA TS2 standards and is encapsulated in a rigid weatherproof enclosure and is supplied with all hardware and sealing gaskets.

In addition to the sensor, the EMTRAC Optical System also comprises the control-cabinet mounted Optical Detectors, which are available in two-channel (ST-9320), four-channel (ST-9340), and Dual-Function (RF/optical) models. The EMTRAC Optical System is the preferred method for signal-priority control for agencies looking to update existing optical systems, while adding the ability to detect multiple types of legacy emitters.



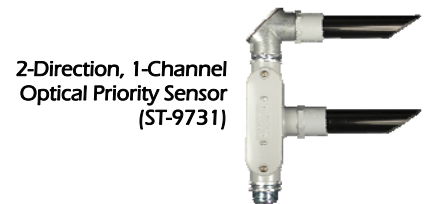
Optical Sensor (ST-9730)



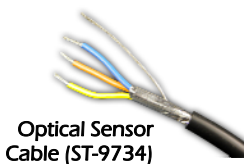
Dual-Function (RF/Optical) Priority Detector
Available RF-equipped (ST-9365) or Radio-Ready (ST-9366)



4-Channel Optical Priority Detector (ST-9340)



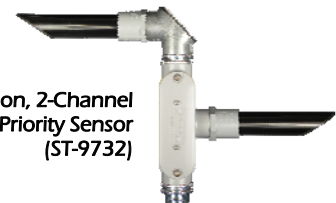
2-Direction, 1-Channel Optical Priority Sensor (ST-9731)



Optical Sensor Cable (ST-9734)



2-Channel Optical Priority Detector (ST-9320)



2-Direction, 2-Channel Optical Priority Sensor (ST-9732)

Specifications

Detection Range	2,500 ft (762 m) max.
Field of View	16° Conical, 60° Conical Available
Power	+17 to +30 VDC
Wiring	Blue: GROUND Yellow: DIRECTIONAL SIGNAL Orange: +17 to +30 VDC Un-insulated (bare): TWIST WITH BLUE WIRE AT CONTROL CABINET

Wires connect to the sensor via internal terminal block.

Temperature Range	-30* to 165* F (-34* to +74* C)
Humidity	5% to 95% relative
Dimensions	H-6.0" (153 mm), W-1.5" (38 mm), D-8.5" (216 mm)
Weight	1.0 lb. (454 g)
Enclosure	All circuitry is encapsulated in environmental protective polyurethane.
Installation	Internal four-connection terminal block. Shielded 3 cond. sensor cable for control cabinet run. 3/4" mounting aperture at sensor base.

*System specifications subject to change.