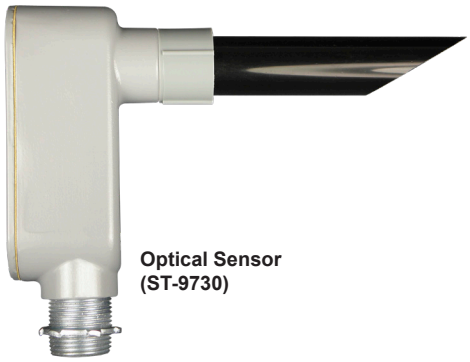
Optical Sensors

ST-9730, ST-9731, ST-9732

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

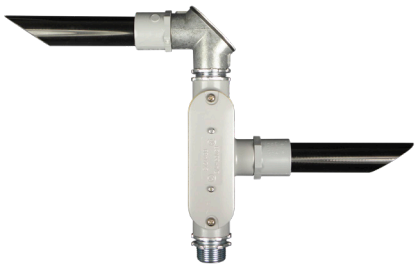
The Optical Sensor may be mounted on mast arms, span wire, or other appropriate structure with a direct, line-of-sight view of the intersection approach.

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



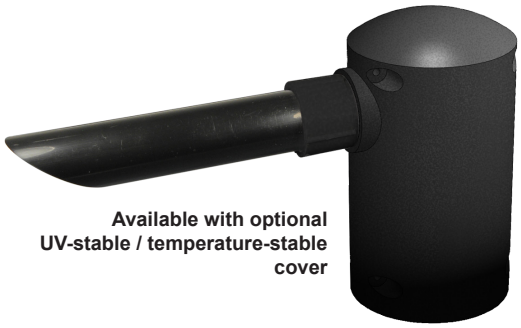
Optical Sensor (ST-9730)

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.



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

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



Available with optional UV-stable / temperature-stable cover

Specifications

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

Temp. 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 4-connection terminal block. Shielded 3-conductor sensor cable for control cabinet run. 3/4” mounting aperture at sensor base.

**System specifications subject to change.*