

Wireless Sensors for Traffic Detection

AccuSense Isolator

What, exactly, is AccuSense Isolator?

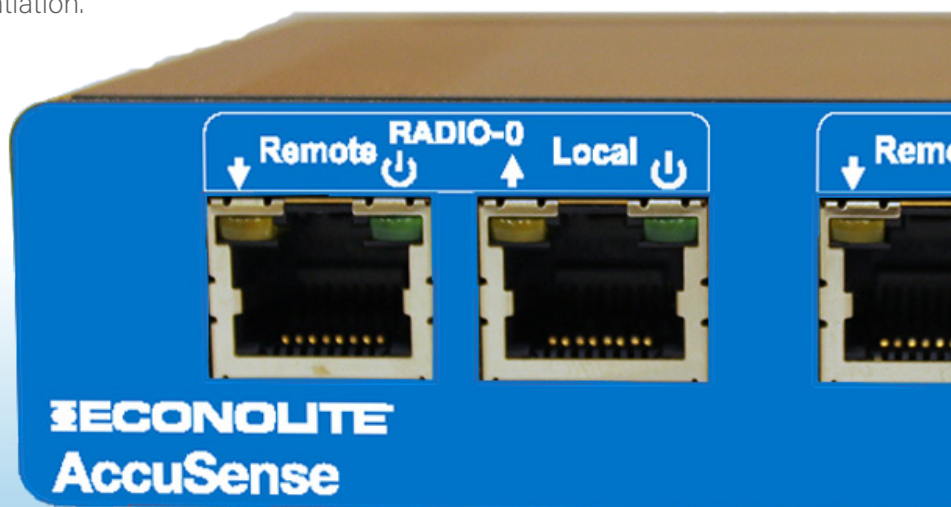
The AccuSense Isolator module provides surge protection, electrical isolation, and CAT5 cable length extension for the AccuSense Control to radio wired interface. The Isolator isolates and protects signals from the AccuSense Control to the radio and provides up to 2,000 feet (610 meters) of 24 AWG CAT5 cable communication for the Control to and from the radio using RS-422 drivers.

Why do agencies use AccuSense?

As the complexities of traffic management increase, ITS strategies are valuing more and more the multi-tasking capabilities of intelligent detection sensors to not only accurately detect traffic at the stop bar to trigger a signal change, but to count, classify, track, and even provide advanced detection for traffic adaptive systems and dilemma zone safety applications. Today's multi-modal intersections and roadways require the multi-modal capabilities of leading-edge detection sensors to provide capabilities such as bicycle detection and differentiation.

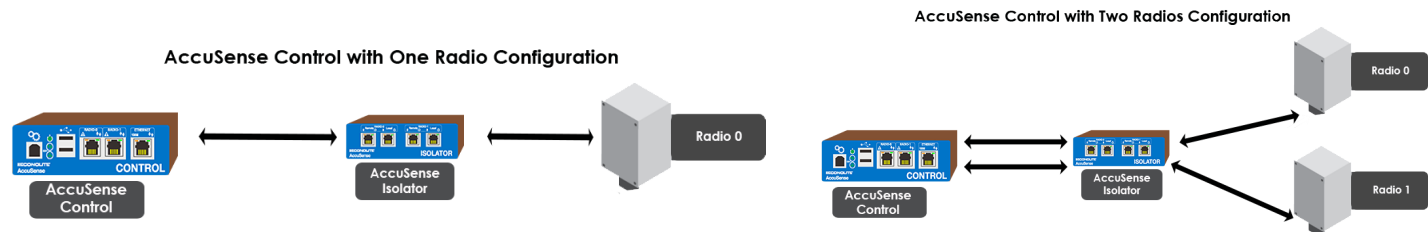
How does AccuSense benefit the driving public?

Econolite's vehicle detection solutions continue to play a critical role in helping ITS deliver on the promise of enhanced public safety, reduced congestion, shorter travel times, lowered environmental impacts, and increased cost savings for all roadway users.





A typical AccuSense Control system consists of one Control unit and two radios with one Isolator.



Power, Physical, & Environmental

Output voltage	<ul style="list-style-type: none">• 15 VDC unregulated 2 W
Power consumption	<ul style="list-style-type: none">• 600 mW per Radio
Dimensions	<ul style="list-style-type: none">• 4.3" x 3.5" x 1.2" (10.9 cm x 8.8 cm x 3 cm) without mount
Weight	<ul style="list-style-type: none">• 7.8 oz (221.5 g) without mount
Operating temp	<ul style="list-style-type: none">• Industrial -40°C to 85°C
Surge protection	<ul style="list-style-type: none">• IEC 61000-4-2 (ESD) ±15 kV (air), ±8 kV (contact)• IEC 61000-4-4 (EFT) 40 A (5/50 ns)• IEC 61000-4-5 (Lightning) 12 A (8/20 µs)
Electrical isolation	<ul style="list-style-type: none">• 2500 Vrms
Connection length extension	<ul style="list-style-type: none">• up to 2,000 ft (610 m)
Mounting	<ul style="list-style-type: none">• DIN or bracket mount

Available Product

Order Code	Description
ASENSE-ISO-2-1133-296	<ul style="list-style-type: none">• FlexIsolator module (2 port): Provides surge protection, electrical isolation, and CAT5 cable length extension (DIN and bracket mounting kit included)

Compliance

Safety	<ul style="list-style-type: none">• 2006/95/EC
EMC	<ul style="list-style-type: none">• FCC: This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.• 2004/108/EC• IC: This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device

