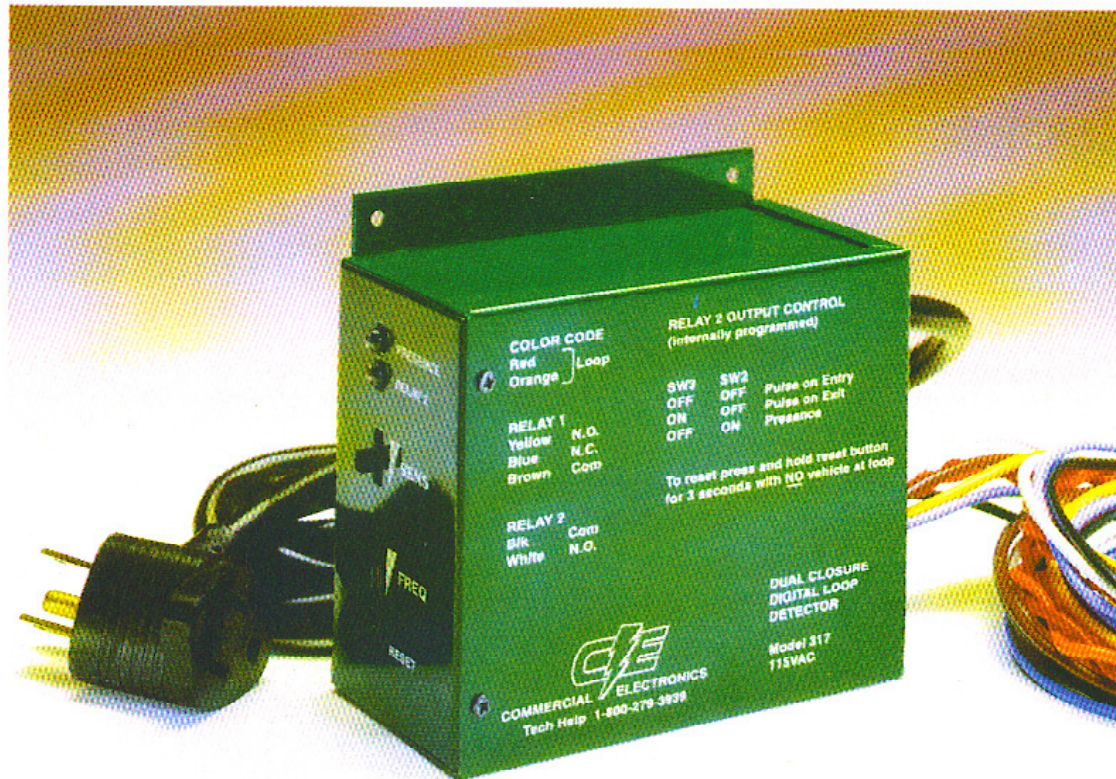


The 317 Single Channel Loop Detector



- Small size
- Failsafe or failsecure outputs
- Increased sensitivity
- Dual output dry contacts
- Easy to use controls
- Automatic sensitivity boost
- Piggy back AC power cord
- Second relay output mode selectable
 - Pulse on entry
 - Pulse on exit
 - Second presence output
 - Loop fault output
- Current and historical loop fault indicators
- Compatible with existing equipment
- Automatic tuning
- Consistent presence time
- Made in the USA

Commercial Electronics is pleased to introduce the next generation detector, the Model 317 inductive loop detector for the drive-thru and access control markets. The Model 317 Loop Detector incorporates time tested detection techniques with state-of-the-art manufacturing processes resulting in a compact design that offers increased performance and compatibility with existing equipment.

The 317 is a single channel vehicle detector designed to provide vehicle presence information required by drive-thru communication systems, gate operators, ticket spitters, card readers, etc. Although compact and

lightweight, the 317 is designed to operate in the most demanding high volume control installations in all environmental conditions.

The 317 is a full performance detector that does not sacrifice features for the evolutionary reduction of size. Two outputs are available. One to provide the presence of a vehicle over the loop, the second is switch selectable to provide pulse on entry of the loop, pulse on exiting the loop, a second presence output or a loop fault output. Easy to use front panel slide switches provide positive identification of frequency and sensitivity settings.

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Specifications

Inductance Range: 18 to 1800 microhenries.
Automatically tuned

Frequency Range: 10 to 97 KHz

Temperature Range: -40°C to +80°C

Outputs: Presence and Relay 2 are change over relay contacts rated at 250VAC, 5A, 150W/600VA max.

Lightning and Transient Protection: Zener diode protection from over voltage induced on loop and feeder leads. Flash over protection from loop to earth. Protection exceeds NEMA specifications.

Supply Power: 120VAC VA Rating 1.2VA

Relay 2 Output: Relay 2 Output Control Switch internally programmable

<u>SW3</u>	<u>SW2</u>	
OFF +	OFF	= Pulse on Entering the loop, 125mS ±25mS
ON +	OFF	= Pulse on Leaving the loop, 125mS ±25mS
OFF +	ON	= Second Presence Output
ON +	ON	= Loop Fault Output

Sensitivity: Sensitivity settings are available using the 3-position front panel slide switch.

MAX = 0.02%
MED = 0.08%
MIN = 0.32%

Frequency: One of three operating frequency ranges can be selected with the front panel slide switch to eliminate crosstalk.

Reset: The Reset button must be depressed for three seconds for automatic retune. If depressed for less than three seconds, it will show loop faults as described below.

Loop Fault Indications: If the 317 sees a loop fault (open loop, shorted loop or greater than a 25% inductance change), the Presence LED will flash at a 16Hz rate. If the fault condition corrects itself, the Presence LED and detector will resume normal operation. This historic fault can be displayed by depressing the Reset button. The Presence LED will flash at 16Hz rate to indicate a fault has occurred. When the reset button is released, the detector will resume normal operation within three seconds.

Detector Failure Conditions: Two factory set options are available.

1. Failsafe (Standard) when supply or loop fails.
 - a. Presence output falls into detect state.
 - b. Relay 2 output falls in the quiescent state.
2. Failsecure when supply or loop fails.
 - a. Presence output falls in the quiescent state.
 - b. Relay 2 output falls in the quiescent state.

Presence Time: 60 minutes standard. Options: 8, 16 minutes or permanent.

Dimensions: 3.5" High, 4.25" Long, 2" wide (excluding mounting ear on top).

Connections:

<u>Relay 1</u>	<u>Relay 2</u>	<u>Loop</u>
N.O. Yellow	Com. Black	Red - Orange
N.C. Blue	N.O. White	
Com. Brown		

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