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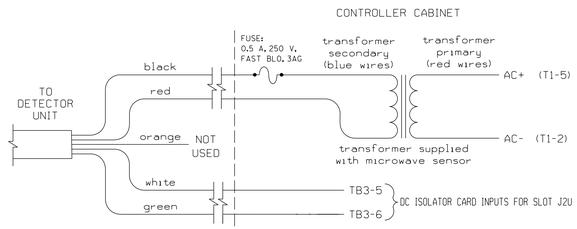
MICROWAVE DETECTOR WIRING DETAIL (6A)

(wire as shown)



MICROWAVE DETECTOR WIRE LIST

COLOR	FUNCTION
black	12V to 24V AC/DC (no polarity)
red	12V to 24V AC/DC (no polarity)
orange	Output Relay Normally Open
white	Output Relay Normally Closed
green	Output Relay Common

NOTES:

1. Sensor is microwave motion detector mounted on a pole as indicated on the Signal Design Plans.
2. Microwave wiring shown above will cause a permanent call unless the Vehicle Detector Programming and Logical I/O Processor Programming details are entered as shown on this sheet. These programming details will cause a call to be placed upon opening the Normally Closed contact on the microwave detector.
3. DC Isolator's LED will be ON when no call is present and will be OFF when a call is present.
4. Important: For proper operation of the microwave detectors, remove surge protection from TB3-5, TB3-6, TB3-7, and TB3-8 and insert 242 DC Isolator in slot J2.

LOGIC PROCESSOR PROGRAMMING

Front Panel
Main Menu >Controller >More >User Programs >Definition

Web Interface
Home >Controller >User Programs Configuration >User Programs Definition

Program 1

Statement	Result	Index	Operation	Parameter A	Index	Parameter B	Index	Delay	Ext
1	Vehicle Detector Call	128	Result=!A	Vehicle Detector Input	6	None	0	0.0	0.0

LOGIC STATEMENT DESCRIPTION

Statement 1 Description: If a call is present on vehicle detector 6, do not place a call on vehicle detector 128.
If no call is present on vehicle detector 6, place a call on vehicle detector 128.

* Vehicle Detector 128 = Logical Detector for microwave detection zone

MAXTIME DETECTOR PROGRAMMING DETAIL

Front Panel
Main Menu >Controller >Detector >Veh Det Plans

Web Interface
Home >Controller >Detector Configuration >Vehicle Detectors

Plan 1

Detector	Call Phase	Delay
6	0	-
128	6	-

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 07-1665
DESIGNED: Jan 2023
SEALED: 3/10/2023
REVISED:

Final Design
Electrical Detail - Sheet 2 of 4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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Electrical and Programming Details For:

Prepared for the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
Signals Management Section
750 N. Greenfield Pkwy, Garner, NC 27529

SR 2817 (Barnes Street)
at
US 29 SB Ramps

Division 7 | Rockingham County | Reidsville

PLAN DATE:	January 2023	REVIEWED BY:	H M Surti
PREPARED BY:	A Ravipati	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 034481 ENGINEER HEMANG M. SURTI

DocuSigned by:
Hemang M. Surti 3/10/2023
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SIG. INVENTORY NO. 07-1665

3/10/2023
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