

(front view)

FS = FLASH SENSE
ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

ACCEPTABLE VALUES

VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)

PHASE 5 YELLOW FIELD
TERMINAL (132)

AC-

REMOVE
(if present)

1. To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
2. Return controller to Factory Defaults before programming per this electrical detail.
3. Ensure that Red Enable is active at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 1,3,4,7, 9,10,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
4. Enable Simultaneous Gap-Out for all Phases.
5. Program phases 2 and 6 for Variable Initial and Gap Reduction.
6. Disable all phases for Startup In Green.
7. Program 2 and 6 for First Phases.
8. Disable all phases for Yellow Flash.
9. The cabinet and controller are part of the Winston-Salem Signal System.

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CONTROLLER.....2070
CABINET.....332 W/ AUX
SOFTWARE.....ECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED.....S2,S2P,S5,S6,S6P,S8
PHASES USED.....2,2 PED,5,6,6 PED,8
OVERLAP "A".....NOT USED
OVERLAP "B".....NOT USED
OVERLAP "C".....NOT USED
OVERLAP "D".....NOT USED

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LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	NU	Z1	Z2	PZ1, PZ2	NU	NU	NU	51,52	61,62	P61, P62	NU	81,82	83	NU	NU	NU	NU	NU
RED		128	128						134			107	107					
YELLOW		129	129						135			108						
GREEN		130										109						
RED ARROW								131										
YELLOW ARROW								132				108						
FLASHING YELLOW ARROW																		
GREEN ARROW			130					133	136			109						
				113						119								
				115						121								

NU = Not Used

* Denotes install load resistor. See load resistor installation detail this sheet.

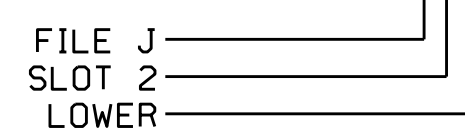
★ See pictorial of head wiring in detail this sheet.

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
5A	TB3-1,2	J1U	55	17	5	5	Y	Y			
6A	TB3-5,6	J2U	40	2	6	6	Y	Y			
6B	TB3-7,8	J2L	44	6	16	6	Y	Y			
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			
8B	TB5-11,12	J6L	46	8	18	8	Y	Y	15		
PED PUSH BUTTONS							NOTE: INSTALL DC ISOLATORS IN INPUT FILE SLOTS				
P21,P22	TB8-4,6	I12U	67	29	PED 2	2 PED					
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED					

NOTE:
INSTALL DC ISOLATORS
IN INPUT FILE SLOTS
I12 AND I13.

INPUT FILE POSITION LEGEND: J2L



For 2A, install a non-intrusive detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

Electrical Detail

ELECTRICAL AND PROGRAMMING
DETAILS FOR:

Prepared In the Offices of:

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

Division of Traffic and Safety Management

750 N. Greenfield Pkwy, Garner, NC 27529

NC 109/SR 4325 (Thomasville Road)
at
I-40 WB Ramps

Division 9

Forsyth County

Winston-Salem

PLAN DATE: December 2024

REVIEWED BY:

PREPARED BY: James Peterson

REVIEWED BY:

REVISIONS

INIT.

DATE

SEAL

NORTH CAROLINA

PROFESSIONAL

SEAL

036833

ENGINEER

RYAN W. HOUGH

Signed by:

Ryan W. Hough

#30320F/A02654C3

1/13/2025

DATE

SIG. INVENTORY NO. 09-0599