ANTENNA 12-PIN ENHANCED RELAY OUTPUT CONNECTOR

ORANGE
PIN4
DETECTION RELAY NORMALLY OPEN CONTACT
PIN5
WHITE

GREY
PIN9
FAULT RELAY NORMALLY OPEN CONTACT
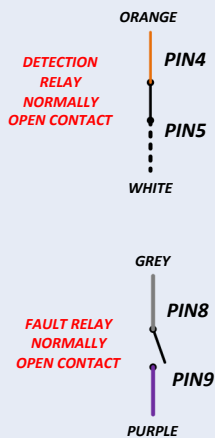PIN8
PURPLE
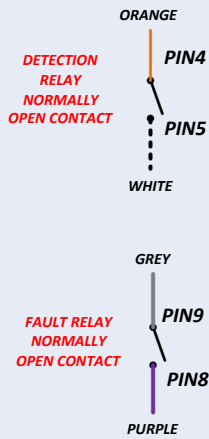
CASE #1: ANTENNA UNIT IS POWERED ON WITH NO DETECTION AND NO FAULT

ORANGE
PIN4
DETECTION RELAY NORMALLY OPEN CONTACT
PIN5
WHITE

GREY
PIN9
FAULT RELAY NORMALLY OPEN CONTACT
PIN8
PURPLE
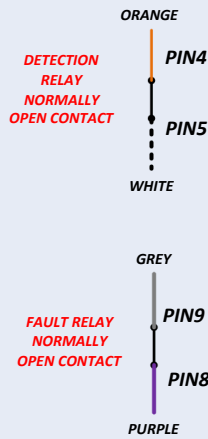
CASE #2: ANTENNA UNIT IS DETECTING AND NO FAULT

ORANGE
PIN4
DETECTION RELAY NORMALLY OPEN CONTACT
PIN5
WHITE

GREY
PIN9
FAULT RELAY NORMALLY OPEN CONTACT
PIN8
PURPLE
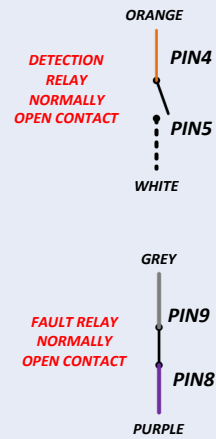
CASE #3: ANTENNA UNIT IS IN FAULT

ORANGE
PIN4
DETECTION RELAY NORMALLY OPEN CONTACT
PIN5
WHITE

GREY
PIN8
FAULT RELAY NORMALLY OPEN CONTACT
PIN9
PURPLE

CASE #4: ANTENNA UNIT IS NOT POWERED

ORANGE
PIN4
DETECTION RELAY NORMALLY OPEN CONTACT
PIN5
WHITE

GREY
PIN8
FAULT RELAY NORMALLY OPEN CONTACT
PIN9
PURPLE
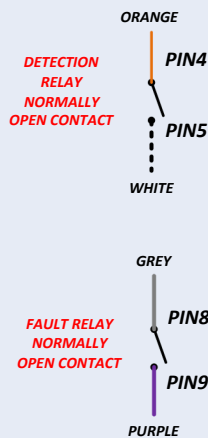
CONNECTING DETECTION AND FAULT RELAYS IN SERIES

ORANGE
PIN4
DETECTION RELAY NORMALLY OPEN CONTACT
PIN5
WHITE
CONNECTION
GREY
PIN8
FAULT RELAY NORMALLY OPEN CONTACT
PIN9
PURPLE
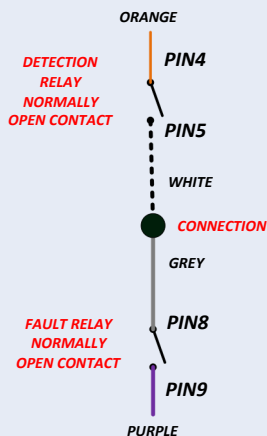
CONNECTING DETECTION AND FAULT RELAYS FROM TWO ANTENNAS IN SERIES

ORANGE
PIN4
DETECTION RELAY NORMALLY OPEN CONTACT
PIN5
WHITE
CONNECTION
GREY
PIN8
FAULT RELAY NORMALLY OPEN CONTACT
PIN9
PURPLE

CONNECTION

ORANGE
PIN4
DETECTION RELAY NORMALLY OPEN CONTACT
PIN5
WHITE
CONNECTION
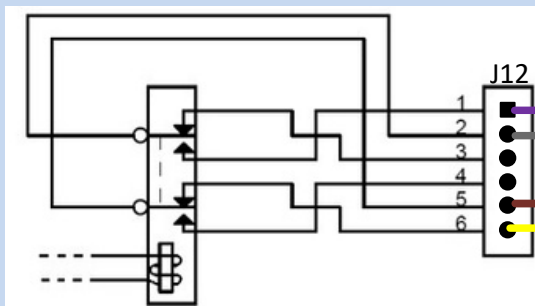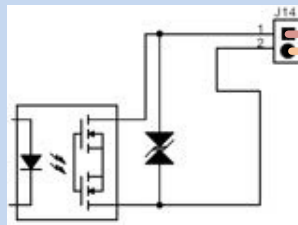GREY
PIN8
FAULT RELAY NORMALLY OPEN CONTACT
PIN9
PURPLE
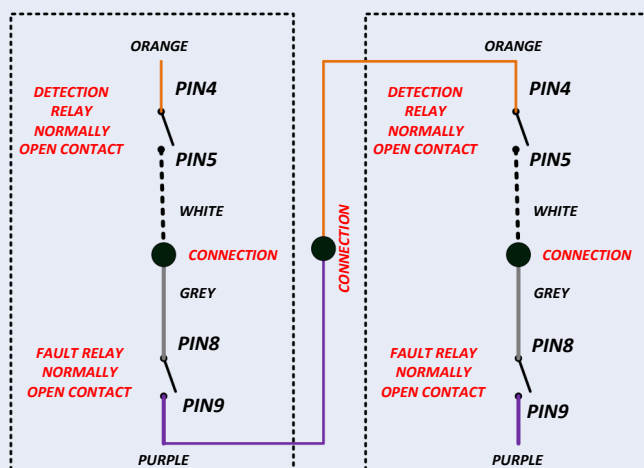
To connect the Detection Relay and the Fault Relay contacts in series, connect WHITE (pin 5) to GREY (pin 8). The ORANGE (pin 4) will be connected to PURPLE (pin 9) whenever there is no Detection and no Fault while the Antenna unit is powered up. Otherwise, ORANGE (pin 4) and PURPLE (pin 9) are open contacts.

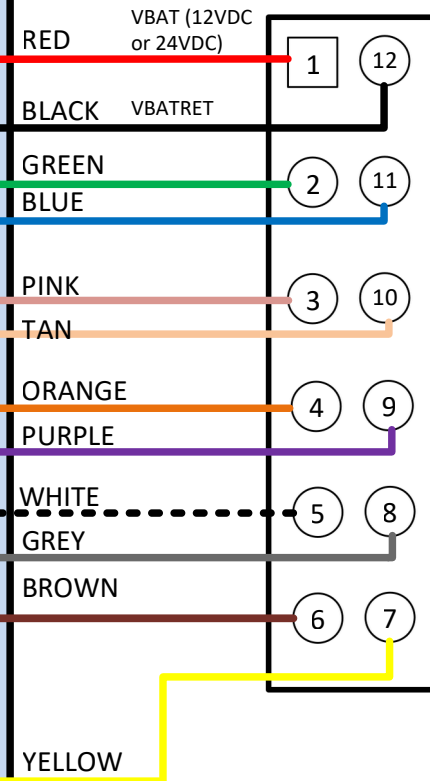# ENHANCED RELAY OUTPUT (-04I ANTENNA VERSION)

ANTENNA MODULE
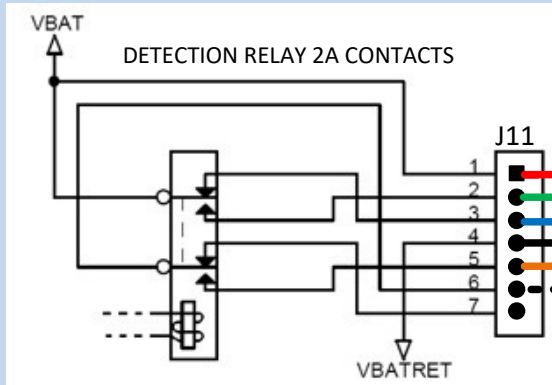
VBAT

DETECTION RELAY 2A CONTACTS

J11

VBATRET

SOLID STATE RELAY OUTPUT

OUTPUT RESISTANCE (MAX):60 Ohms
OUTPUT CURRENT (MAX): 80mA
OUTPUT WITHSTAND VOLTAGE (CONT): 220V

J14

J12

FAULT RELAY 2A CONTACTS

**ENHANCED RELAY
OUTPUT OPTION
CABLE TO 12-PIN
DEUTSCH CONNECTOR**

RED — VBAT (12VDC or 24VDC)

BLACK — VBATRET

GREEN

BLUE

PINK

TAN

ORANGE

PURPLE

WHITE

GREY

BROWN

YELLOW

1 — 12
2 — 11
3 — 10
4 — 9
5 — 8
6 — 7

PIN 2: OPEN WHEN DETECTING

SCAN~LINK RFID TAG
VBAT WHEN NO DETECTION

PIN 11: VBAT WHEN DETECTING
SCAN~LINK RFID TAG
OPEN WHEN NO DETECTION

PIN 3: SOLID STATE RELAY

OUTPUT. CLOSED TO PIN 10
WHEN NO DETECTION

PIN 10: SOLID STATE RELAY COM

NO FAULT:

PIN 8 CONNECTED TO PIN 9
PIN 7 TO PIN 6 OPEN

FAULT OR NO POWER:

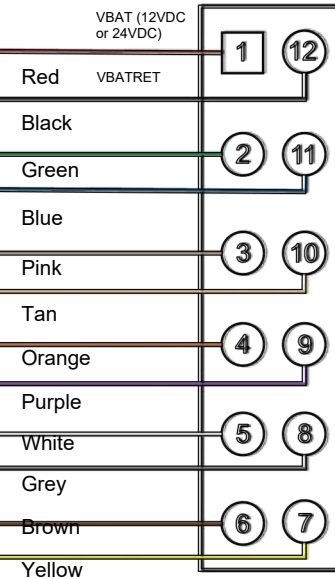PIN 7 CONNECTED TO PIN 6
PIN 8 TO PIN 9 OPEN

ANTENNA MODULE

ENHANCED RELAY OUTPUT OPTION CABLE TO 12-PIN DEUTSCH CONNECTOR

DETECTION RELAY 2A CONTACTS

VBAT

J11

VBAT (12VDC or 24VDC)

VBATRET

VBATRET

SOLID STATE RELAY OUTPUT
OUTPUT RESISTANCE (MAX):60 Ohms
OUTPUT CURRENT (MAX): 80mA
OUTPUT WITHSTAND VOLTAGE (CONT): 220V

J14

J12

FAULT RELAY 2A CONTACTS

Wire	Pin	Pin
	1	12
Red		
Black		
Green	2	11
Blue		
Pink	3	10
Tan		
Orange	4	9
Purple		
White	5	8
Grey		
Brown	6	7
Yellow		

PIN 2: OPEN WHEN DETECTING SCAN~LINK RFID TAG VBAT WHEN NO DETECTION

PIN 11: VBAT WHEN DETECTING SCAN~LINK RFID TAG OPEN WHEN NO DETECTION

PIN 3: SOLID STATE RELAY OUTPUT. CLOSED TO PIN 10 WHEN NO DETECTION

PIN 10: SOLID STATE RELAY COM

NO FAULT: PIN 8 CONNECTED TO PIN 9. PIN 7 OPEN
FAULT OR NO POWER: PIN 8 CONNECTED TO PIN 7. PIN 9 OPEN

PROJECT	
SCAN~LINK	
TITLE	
Enhanced Relay Output Connection Diagram	

APPROVED UDS	SIZE	CODE	DWG NO	REV
CHECKED UDS	B			1
DRAWN EMS 2023-06-13	SCALE 1:1	WEIGHT	SHEET 1/1	