

Advanced troubleshooting techniques – Vehicle loop detector codes F1, F2, and F3

This document describes what to do when your LMA-1250 vehicle detector is not working and displays an F1, F2, or F3 error code.

If the red display indicates:

F1 – This is the code for open loop. It means that the connection from the LMA-1250 to the inground loop has broken. Follow the wires from the detector (pins 7 and 8, loop in) through the conduit to where ever the loop wires connect to the in ground loop. Look for a broken or disconnected wire. Press reset.

F2- This is the code for a shorted loop. It means that the connection from the LMA-1250 to the inground loop is shorted (wires on pins 7 and 8 are touching each other) or the loop has shorted out in the ground. Check for bare loop wires touching each other. Press reset.

F3- This is the code for inductance change. It means that the loop is deteriorating, or that the wires from the LMA-1250 to the loop have been moved. Check that the wiring to the loop is secure and check the loop. Press reset to see if it clears.

Refer to WT1039_Advanced_Technical_Support on Wentworth's website for tips on how to use a meter to test for open and shorted loops.



Wiring EDI LMA 0200 Dectector w/11 pin Block

LMA-0200-LV Rev D	
12VDC, 24VDC & 24VAC - FAIL SAFE	
PIN CONNECTIONS	
1	+12VDC / +24VDC / 24VAC (+)
2	DC GROUND / 24VAC (-)
3	OUTPUT B RELAY- N.O. CLOSSES FOR DETECT
4	NO CONNECTION
5	OUTPUT A RELAY- COM
6	OUTPUT A RELAY- N.O. CLOSSES FOR DETECT
7	LOOP INPUT
8	LOOP INPUT
9	OUTPUT B RELAY- COM
10	OUTPUT A RELAY- N.C.
11	OUTPUT B RELAY- N.C.
EBERLE DESIGN INC. (480) 968-6407	
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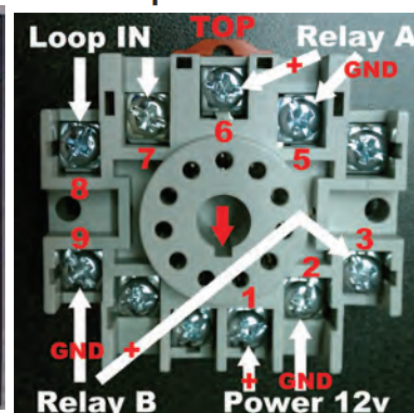


Figure 1: LMA-1250 and connector block wiring diagram.