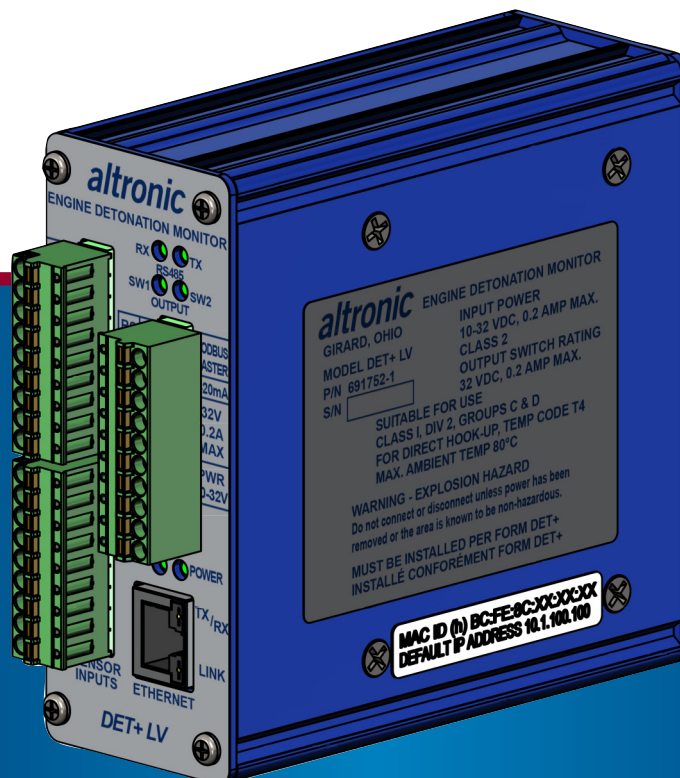# Wiring Diagrams

DET+ LV Detonation Sensing Monitor with Low Voltage Fire and Reset Inputs

Form DET+ LV WD 7-15

Use these wiring diagrams for proper wiring instructions for a DET+ LV Detonation Sensing Monitor to a CPU-2000 Ignition System, or similar, with Fire and Reset outputs.

Refer to the DET-1600 Installation/Operation manual and termination program for all other installation, operation, and configuration information.
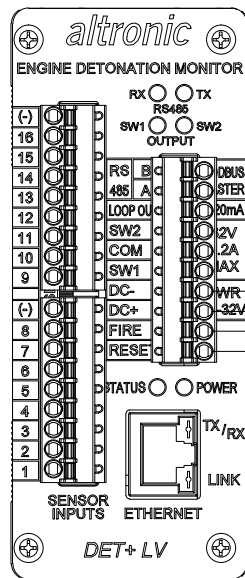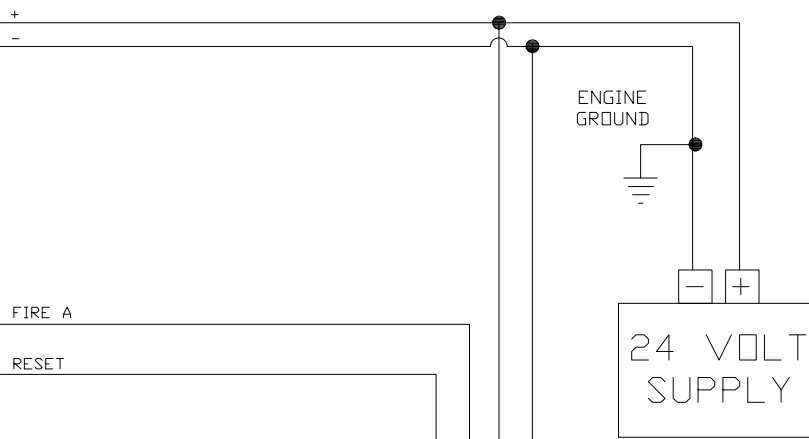
altronic

CPU-2000
LOGIC MODULE

		POWER
+24VDC	+	
-24VDC (GND)	-	

		OUTPUT MODULE CONNECTIONS
SHIELD	Sh	
VSS (BLACK)	C	
DSA (BROWN)	D	
DSB (RED)	E	
REA (ORANGE)	F	
REB (YELLOW)	G	
E1 (GREEN)	H	
E2 (BLUE)	J	
E3 (VIOLET)	K	
SKIP (GREY)	L	
FIRE A (WHITE)	M	
FIRE B (RED/BLACK)	N	
RESET (RED/GREEN)	P	
MULTI (RED/YELLOW)	R	

+
-

ENGINE
GROUND

FIRE A

RESET

24 VOLT
SUPPLY

- +

		4-CYCLE PICK-UP	MAGNETIC PICK-UPS	INPUTS
SHIELD	Sh			
HALL-EFFECT - RETURN	C			
HALL-EFFECT + SUPPLY	B			
HALL-EFFECT OUTPUT	A			
RESET INPUT (BLACK)	B			
RESET INPUT (RED)	A			
SHIELD	Sh			
G. T. INPUT (BLACK)	B			
G. T. INPUT (RED)	A			
MISC INPUT	11			
CURRENT LOOP INPUT -	10			
CURRENT LOOP INPUT +	9			

		EXTERNAL CONTROL (DSM)
RESET "B"		
RESET "A"		
WINDOW "B"		
WINDOW "A"		
LOGIC VSS		
DSM SERIAL RS485 -		
DSM SERIAL RS485 +		

		PANEL I/O
COMMON OUT	8	
FIRE CONFIRM OUT	7	
SHUTDOWN OUT	6	
ALARM OUT	5	
SHUTDOWN INPUT	4	

		SERIAL PORT SETUP ONLY
SHIELD	3	
SERIAL RS485 -	2	
SERIAL RS485 +	1	

CAUTION:
RESET & FIRE INPUTS ARE LOW VOLTAGE
INPUTS.
DO NOT CONNECT TO COIL OR SD LEAD.

CPU-2000
LOGIC MODULE

+24VDC	+	POWER
-24VDC (GND)	-	
SHIELD	Sh	
VSS (BLACK)	C	
DSA (BROWN)	D	
DSB (RED)	E	OUTPUT MODULE CONNECTIONS
REA (ORANGE)	F	
REB (YELLOW)	G	
E1 (GREEN)	H	
E2 (BLUE)	J	
E3 (VIOLET)	K	
SKIP (GREY)	L	
FIRE A (WHITE)	M	
FIRE B (RED/BLACK)	N	
RESET (RED/GREEN)	P	
MULTI (RED/YELLOW)	R	

SHIELD	Sh	4-CYCLE PICK-UP
HALL-EFFECT – RETURN	C	
HALL-EFFECT + SUPPLY	B	
HALL-EFFECT OUTPUT	A	
RESET INPUT (BLACK)	B	MAGNETIC PICK-UPS
RESET INPUT (RED)	A	
SHIELD	Sh	
G. T. INPUT (BLACK)	B	
G. T. INPUT (RED)	A	
MISC INPUT	11	INPUTS
CURRENT LOOP INPUT –	10	
CURRENT LOOP INPUT +	9	

RESET "B"		EXTERNAL CONTROL (DSM)
RESET "A"		
WINDOW "B"		
WINDOW "A"		
LOGIC VSS		
DSM SERIAL RS485 –		
DSM SERIAL RS485 +		

COMMON OUT	8	PANEL I/O
FIRE CONFIRM OUT	7	
SHUTDOWN OUT	6	
ALARM OUT	5	
SHUTDOWN INPUT	4	

SHIELD	3	SERIAL PORT SETUP ONLY
SERIAL RS485 –	2	
SERIAL RS485 +	1	

FIRE A
FIRE B
RESET

IN1   IN2   OUT

P/N 691015
CPU-2000 TO
DET-1620 ADAPTER

NO ELECTRICAL
CONNECTION

ENGINE
GROUND

24 VOLT
SUPPLY

altronic
ENGINE DETONATION MONITOR

RX ◯ ◯ TX
RS485
SW1 ◯ ◯ SW2
OUTPUT

DET+ LV

SENSOR INPUTS   ETHERNET

CAUTION:
RESET & FIRE INPUTS ARE LOW VOLTAGE
INPUTS.
DO NOT CONNECT TO COIL OR SD LEAD.