

Trotter Controls, Inc. FORT WORTH, TEXAS	PRODUCT DATASHEET	NUMBER DS-0021	REVISION A
		MODEL	
TITLE DATASHEET – LED Annunciator Panel	BY LKA	CHK'D VT	SERIAL
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REVISIONS :

None

PURPOSE :

This datasheet provides the general specifications for the LED Annunciator Panel.

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SUMMARY :

This fully redundant, dual channel LED Annunciator Panel displays 15 sunlight readable cells. Each cell color and text is fully configurable. The unit automatically self tests during power on. The compact design with one MS connector eliminates the need for multiple individually wired indicators cutting material and installation costs; as well as increasing reliability.

FEATURES :

- 15 sunlight readable LED annunciator
- Fully Redundant Dual Channel indication per annunciator cell
 - Dual Voltage Supplies
 - Dual Self Test Functions
 - Dual Voltage Comparison Circuits
 - Control reliable, redundant design throughout
- Cell colors configurable.
- Cell identification text is configurable
- Customization configurable
- 8 inputs configurable as sink or source
- 1 input configurable as sink or voltage compare
- 5 inputs set as sink input.
- 12 to 38V operating voltage.
- Power on self test system
- Dual independent power supplies
- Extremely compact design
- Sealed Black Anodized Aluminum Chassis
- LED Technology
 - Almost no self heating due to extremely efficient design
 - No more burned out bulbs
 - Built in dual channel self test function
- RFI and EMI filtering / shielding
- Bayonet Style MS Connector ~ Quick disconnect connector

The LED Annunciator Panel includes 15 individual display cells. Each cell contains 2 ultra bright led's.

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Each cells LED's are powered from separate power supplies allowing redundant operation. If one power supply fails, only one LED per cell stops operating.

Power on self test function incorporates 2 independent systems to prevent either from failing the display system.

One LED in each cell is illuminated continuously while the other LED flashes at 1 second on off rate for 10 seconds. This allows all LED indicators to be tested for indicators that are normally on at power up such as low oil pressure.

One system runs the 10second continuous LED cell and the other runs the flashing LED cell. A timer or power failure is indicated by a failure of one or the other LED in each cell.

A single LED failure is indicated by only one LED not functioning during self test.

One cell can be configured using a precision voltage reference circuit to indicate low battery voltage.

Uses two independent comparator and LED driver circuits for indication redundancy.

Standard model is configured as follows.

- +24V system
- Low battery or charge current. (Generator Out)
- Low voltage indication configured at 24.5V (+/-0.25V).
- Normal operation indicated at 25V (Voltage delta of .5 Volts +/- 0.1V)
- Temperature stability within +/- .1 Volts (32 - 140Deg F)

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CONNECTIONS :

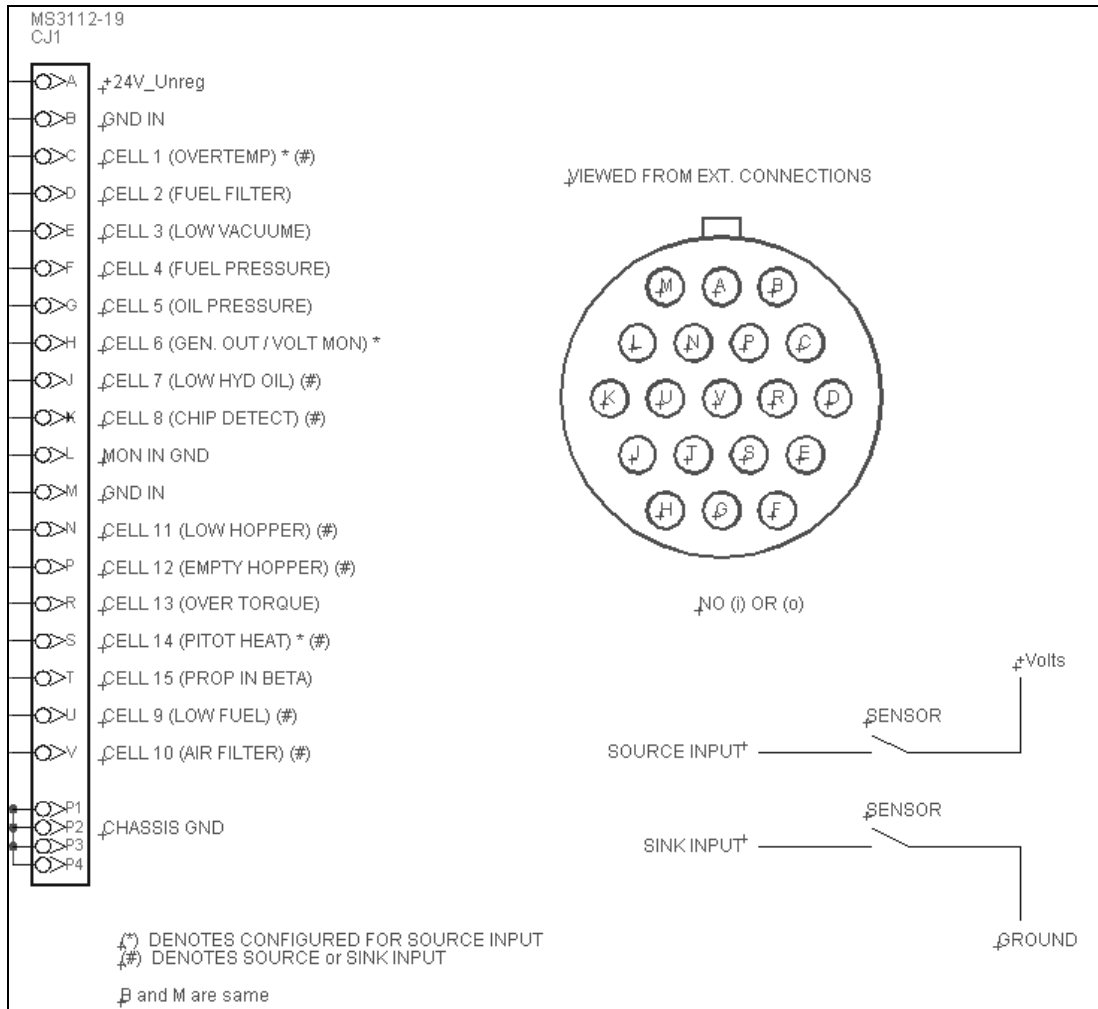


Figure 1 – Connection Pin out

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CELL IDENTIFICATION:

CELL 1	CELL 2	CELL 3	CELL 4	CELL 5
CELL 6	CELL 7	CELL 8	CELL 9	CELL 10
CELL 11	CELL 12	CELL 13	CELL 14	CELL 15

CELL LAYOUT AG AIRCRAFT:

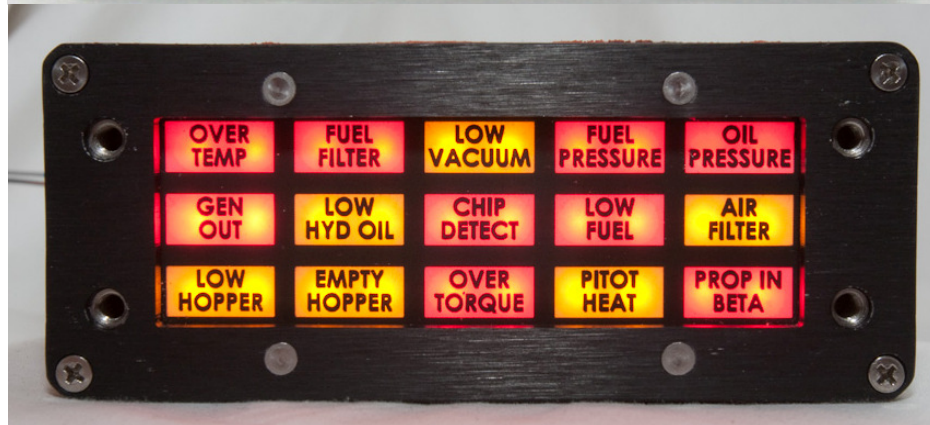
OVER TEMP	FUEL FILTER	LOW VACUUM	FUEL PRESSURE	OIL PRESSURE
GEN. OUT	LOW HYD OIL	CHIP DETECT	LOW FUEL	AIR FILTER
LOW HOPPER	EMPTY HOPPER	OVER TORQUE	PITOT HEAT	PROP IN BETA

CELL LAYOUT FIREBOMBER AIRCRAFT:

OVER TEMP	FUEL FILTER	LOW VACUUM	FUEL PRESSURE	OIL PRESSURE
GEN. OUT	LOW HYD OIL	CHIP DETECT	LOW FUEL	AIR FILTER
FIREGATE ARMED	OVER TORQUE	PITOT HEAT	PROP IN BETA	

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GENERAL PHOTOS:



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