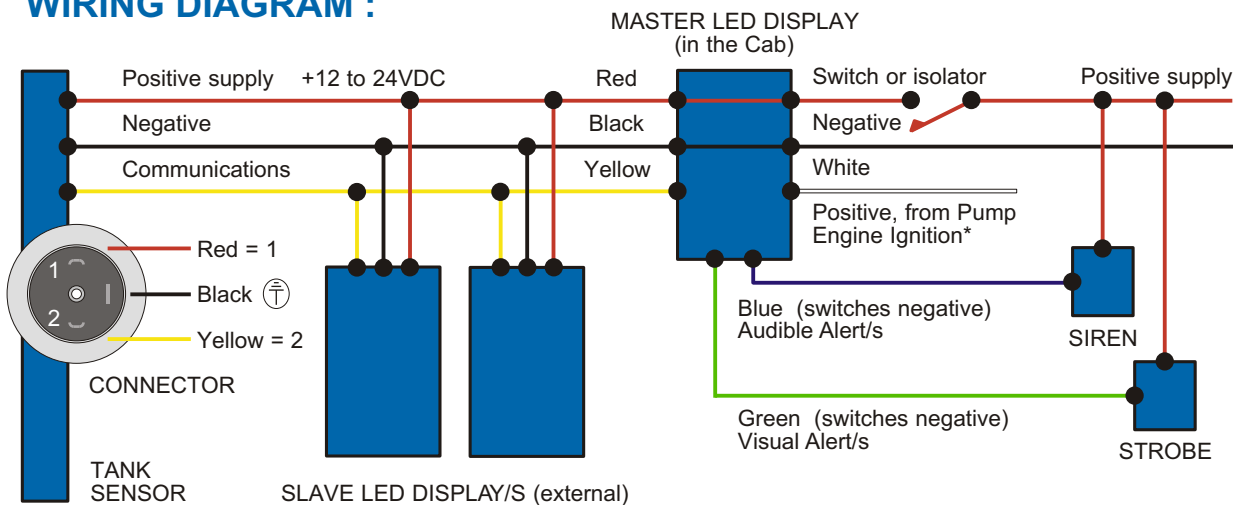


INSTALLATION Model 1684-CFS V5

SA CFS WATER TANK LEVEL INDICATING SYSTEM



WIRING DIAGRAM :



INSTALLATION NOTES :

[1684-CFS Version V5]

- 1 The Displays have internal re-settable overcurrent protection so external fuses are not needed.
 - 2 Connect the various units of the system as show in the wiring block diagram above.
 - 3 The Visual Alert input switches to negative when the water level drops below 20%.*
 - 4 The Audible Alert input switches to negative when the water level drops below 20%.*
 - 5 Wiring to multiple LED Displays and to the Tank Sensor is made in parallel.
 - 6 Ensure a good negative connection to the vehicle body or chassis.
 - 7 Ensure that all units of the system are terminated to a common positive supply point.
 - 8 When first installed and powered up, the Master Display top LED will flash 10 times while it downloads the level settings from the Tank Sensor.
Do NOT interrupt the power while the Master Display reads the Tank Sensor level settings.
 - 9 Within 10 seconds, when the Master LED Display indicating the current water level is lit, switch off the power to the system.
 - 10 Switch on the power to the system again, and the Slave LED Display/s will then be initialised.
- *The Visual and Audible Alerts are inhibited unless the Pump Engine Ignition input is positive (on).
If this feature is not required then connect the Pump ignition input to the Positive Supply.

WIRING COLOURS :

For the wiring colours as above refer also to these labels fixed to the back of the LED display housings:

SA CFS, negative ground, new or retrofit, 20% low, 15 second audible warning time-out system, V5 firmware and 1684CFSR circuit, September 2007

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MODEL 1684-CFS V5
MASTER DISPLAY

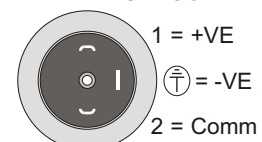
LED DISPLAY
 +12 to 24VDC = Red
 Supply negative = Black
 Communication = Yellow
 Pump ignition = White
 Siren negative = Blue
 Strobe negative = Green

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MODEL 1684-CFS V5
SLAVE DISPLAY

LED DISPLAY
 +12 to 24VDC = Red
 Supply negative = Black
 Communication = Yellow

TANK SENSOR

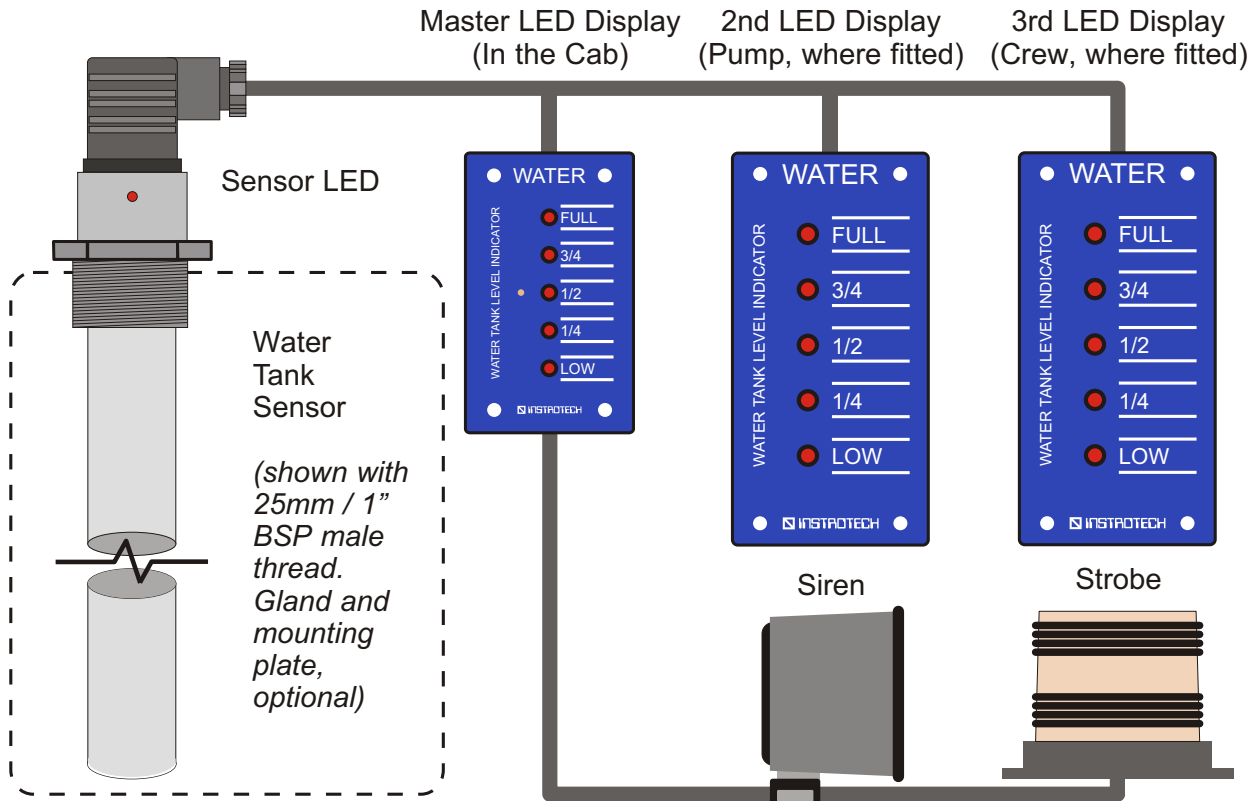


OPERATION

Model 1684-CFS V5

SUPPORT 1800 999 063

SA CFS WATER TANK LEVEL INDICATING SYSTEM



OPERATING FUNCTIONS :

[1684-CFS Version 5]

- LED DISPLAYS** 1, 2, 3, 4 or 5 LED's are lit based on the water level in the tank. The LOW LED flashes when the water level drops to 20%.
Note: The Cab LED Display dims automatically in low light.
 * All LED's flash if there are wiring or communication faults.
 * The top and bottom LED's flash if there is a Tank Sensor fault.
- TANK SENSOR** A blinking Tank Sensor LED shows normal communication with the LED Displays.
 * A permanently lit Tank Sensor LED shows power on only without communication.
- SIREN** The Siren sounds for 15 seconds when the water level drops to the 20% level. The Siren warning is only reset when the tank is refilled above the 3/4 level.
Note: The Low water level Siren only sounds when the Pump Ignition is On.
 * The Siren sounds if there are wiring or communication faults.
- STROBE** The Strobe warning flashes when the water level drops to 20%. The Strobe continues flashing until the tank is refilled above the 3/4 level.
Note: The Low water level Strobe only flashes when the Pump Ignition is On.
 * The Strobe flashes if there are wiring or communication faults.
- FAILURES** Failure of the Strobe or Siren or associated wiring will not affect the operation of the Tank Sensor nor the LED Displays, since each part is protected separately.
- START-UP** On powering up, the Siren will 'beep' and the Strobe will flash to indicate that the system is working correctly, after which it will display the current water level.

*** IMPORTANT NOTICE - IF THE TOP AND BOTTOM LED's, OR ALL LED's AND THE STROBE ARE FLASHING, AND/OR THE SIREN SOUNDS CONTINUOUSLY, DO NOT RELY ON THE LEVEL SYSTEM FOR AN INDICATION OF THE WATER AVAILABLE SINCE THERE IS A FAULT !**