

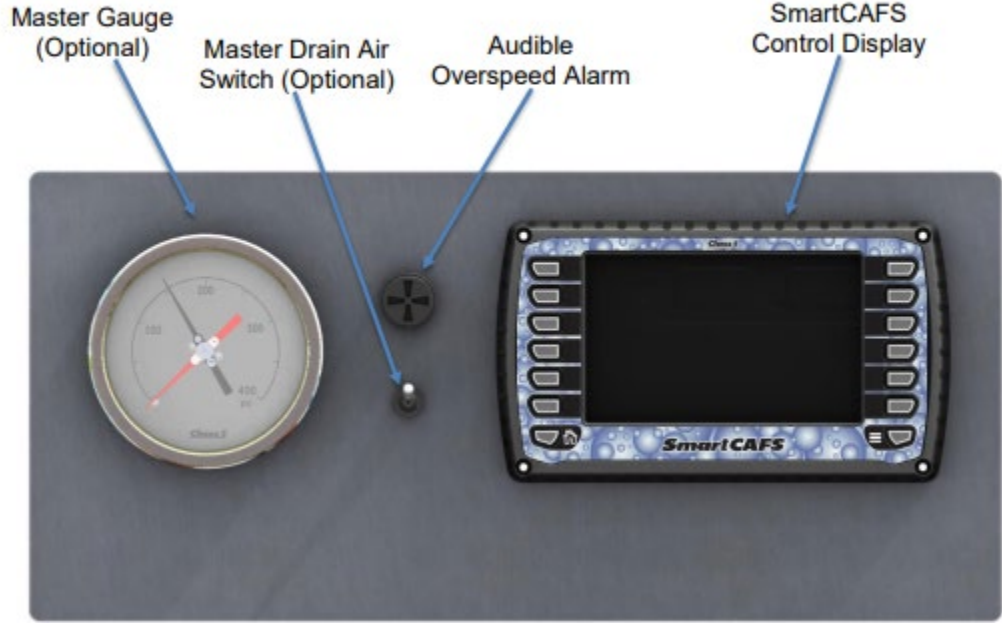


SmartCAFS Panel Cutout Reference Guide

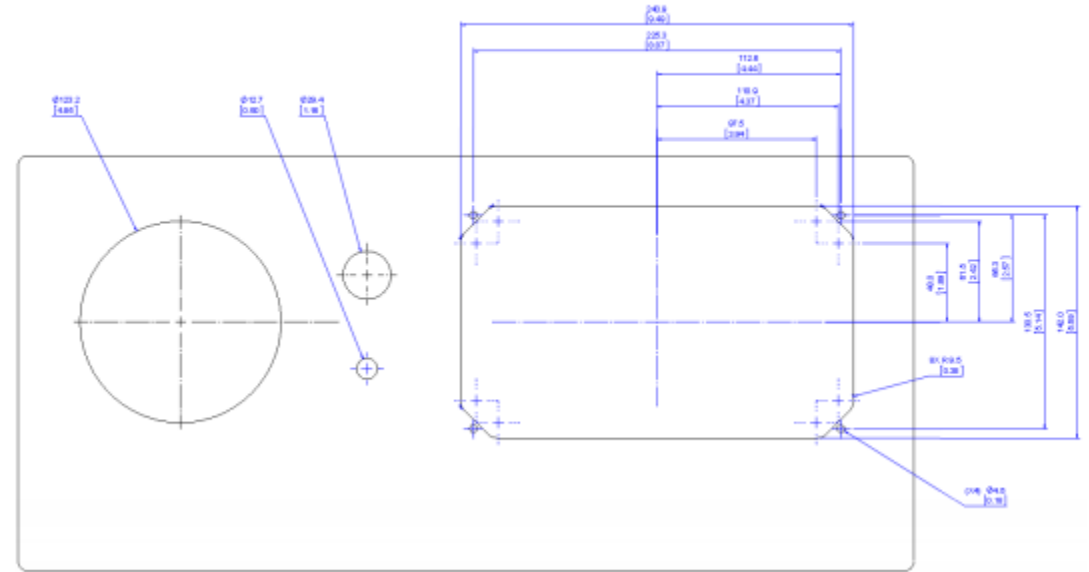
29JAN2020

Rev-B

CONTROL PANEL - SMARTCAFS

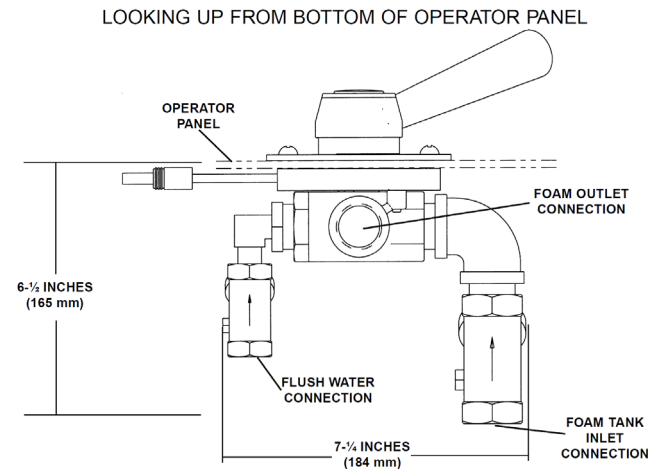
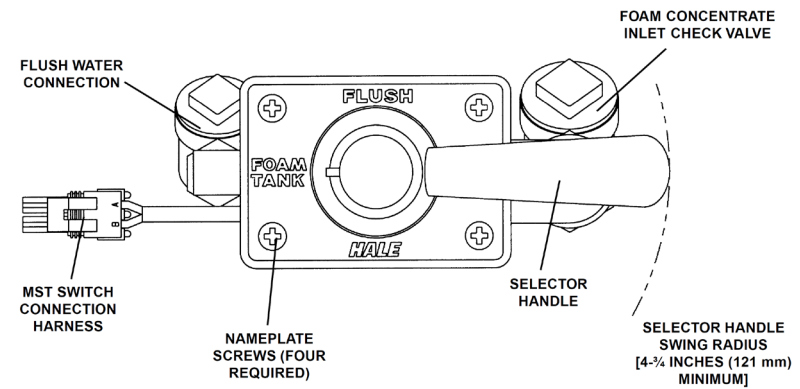
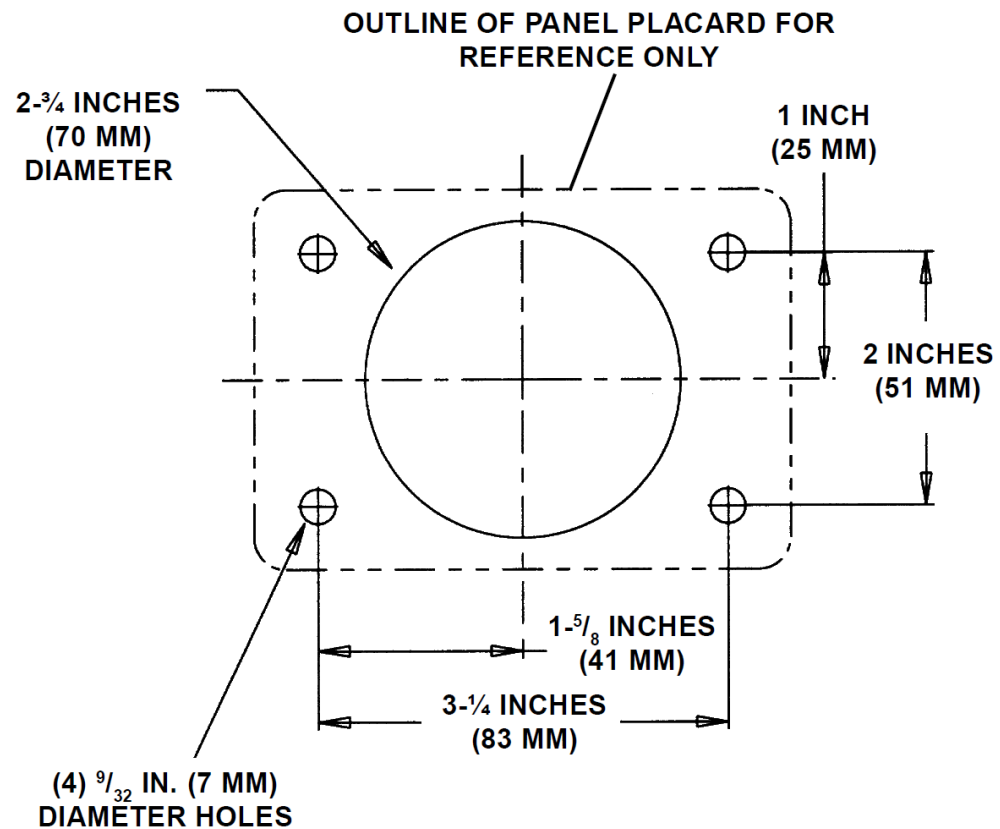


COMPONENT PANEL CUT-OUT DIMENSIONS



CONTROLS REQUIRED

- The UV SmartCAFS Display and Alarm are required.
- Master Drain Air Switch is recommended.
- Master Gauge is optional (display shows the water pressure and can also display air pressure if needed).

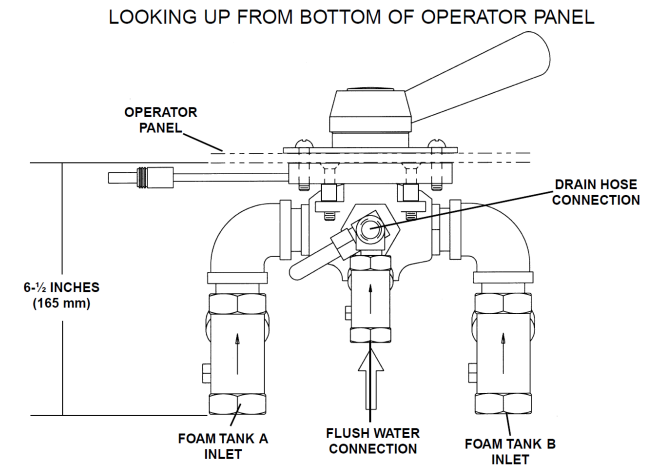
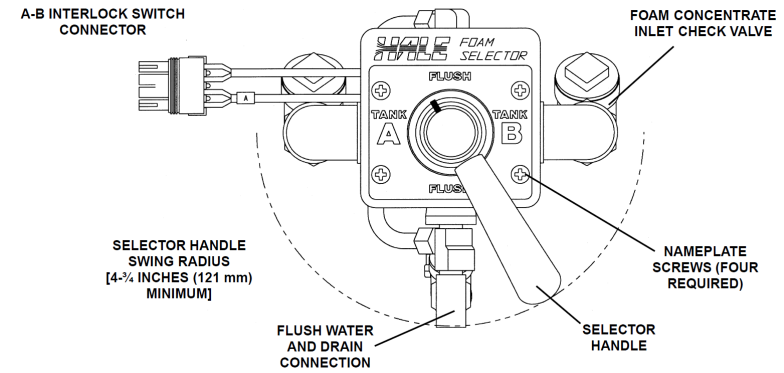
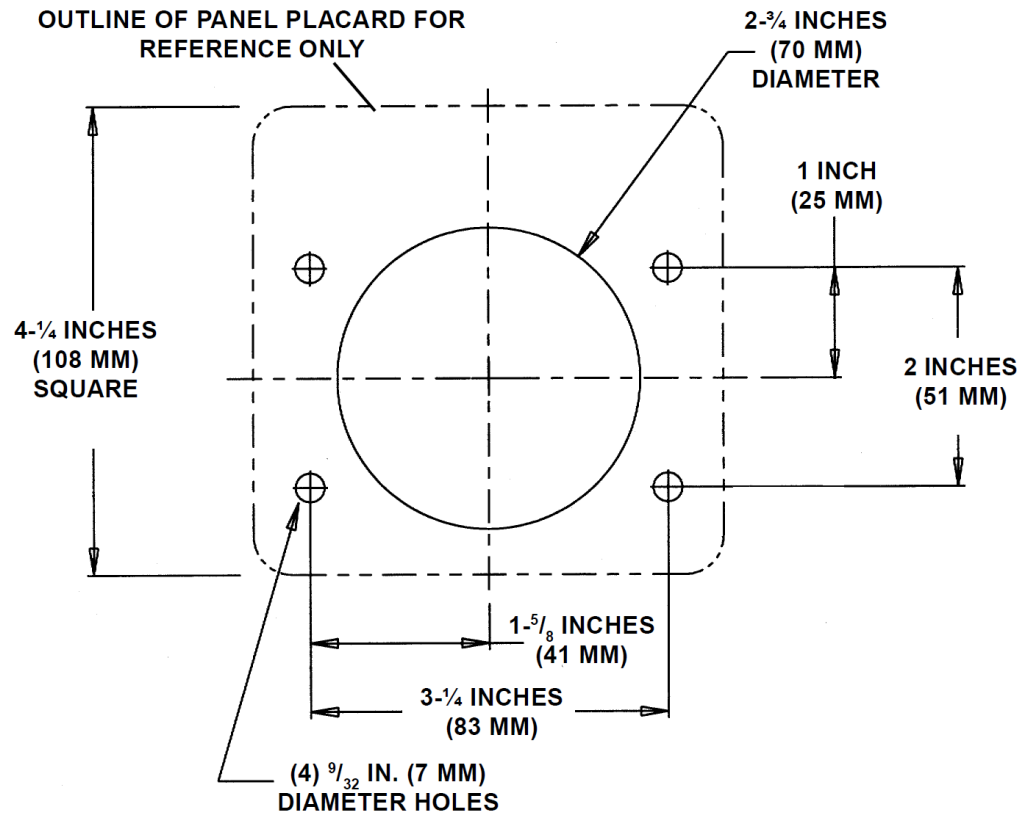


MST

OPTIONAL

Manual Single Tank is an optional tank selector that incorporates a flush option for single tank installations.

- Outline of placard is used as a guide for clearance.
- For actuation of the valve take into consideration the full 180° swing path of the handle (4.75" radius).
- Behind the panel there needs to be at least 6.5" of clearance for the connections plus room for the hoses and and elbows to connect. Recommend at 8-10" minimum behind panel where the MST is located.

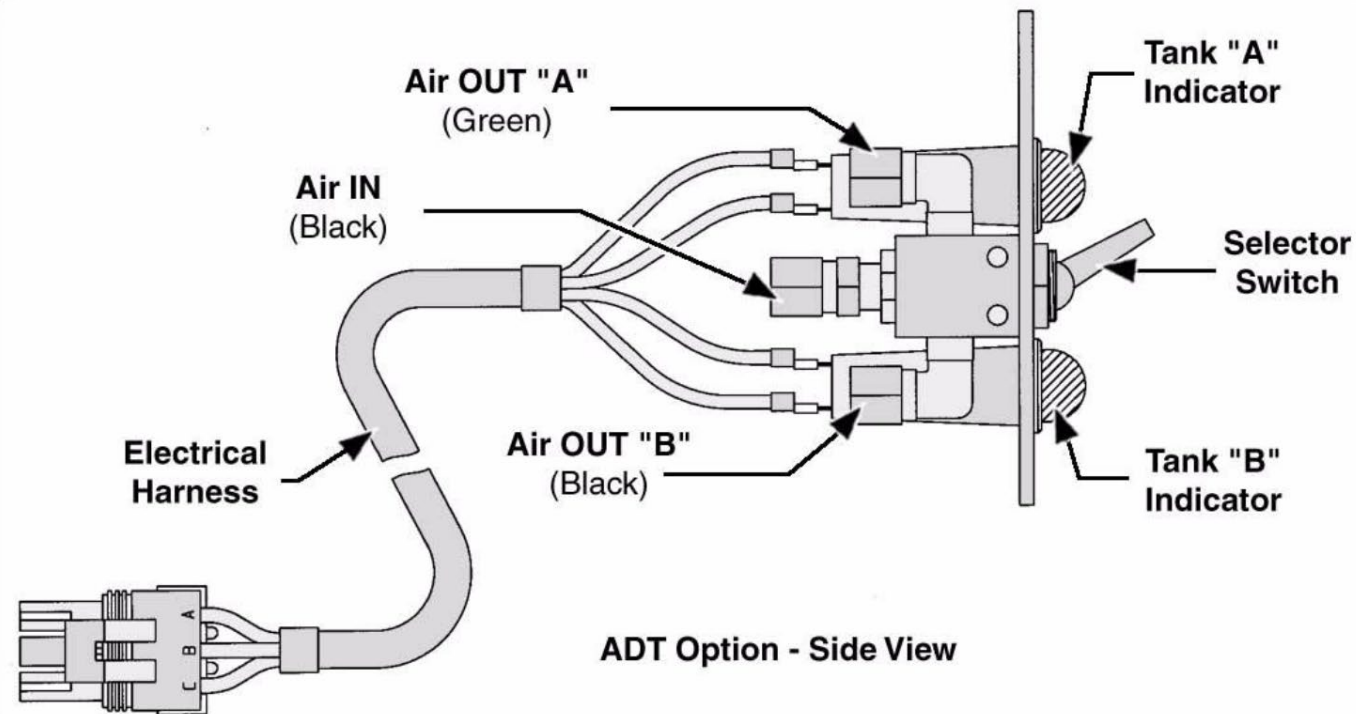
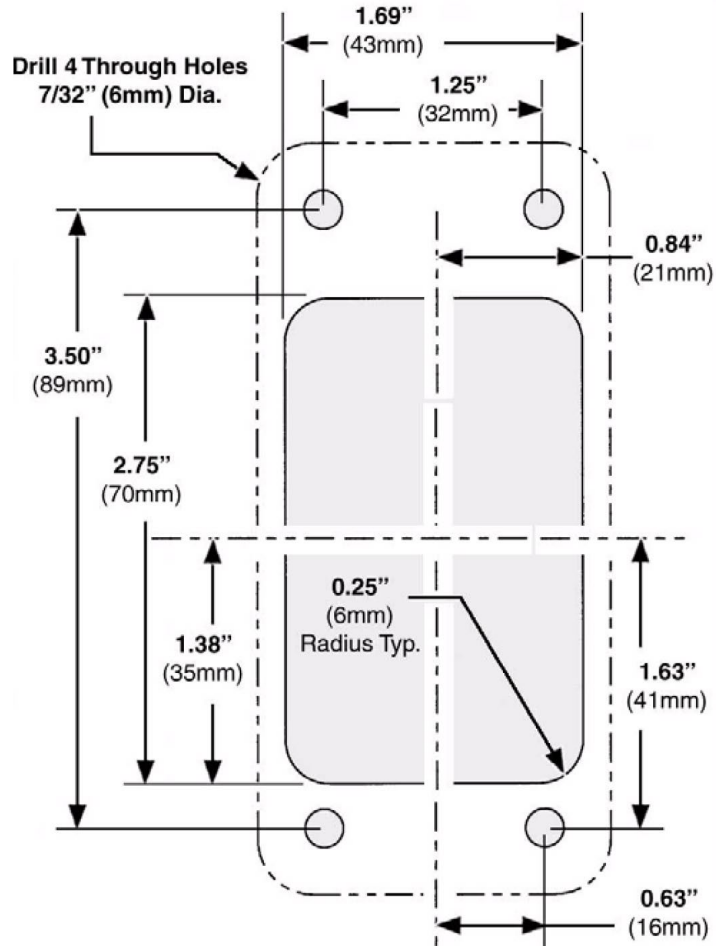


MDTII

OPTIONAL

Manual Dual Tank is an optional tank selector that incorporates a flush option for dual tank installations.

- Outline of placard is used as a guide for clearance.
- For actuation of the valve take into consideration the full 180° swing path of the handle (4.75" radius).
- Behind the panel there needs to be at least 6.5" of clearance for the connections plus room for the hoses and and elbows to connect. Recommend at 8-10" minimum behind panel where the MDTII is located.



ADT

OPTIONAL

Air Dual Tank is an optional tank selector that incorporates a flush option for dual tank installations and is operated via air.

- After mounting the placard assembly install the air hoses from the ADT to the placard assembly. Make sure proper connections are made at the placard assembly
- A color coded decal attached to the ADT valve assembly along with an optional color coded air hose harness simplifies air hose connections. If the optional air hose harness is not used, 1/4" (6mm) inside diameter air brake tubing can be substituted. Make sure the air brake tubing selected has the proper DOT approval.
- When cutting the air harness or air brake tubing to size make sure the ends are square using a tubing cutter or razor knife.

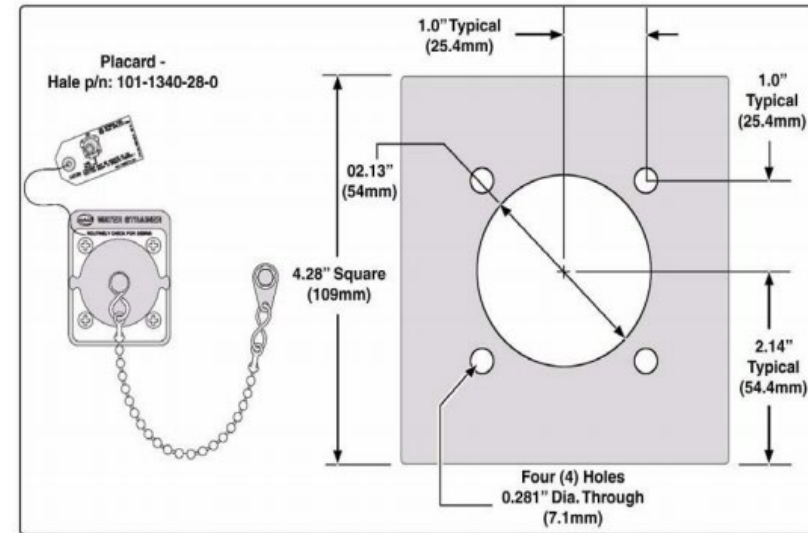
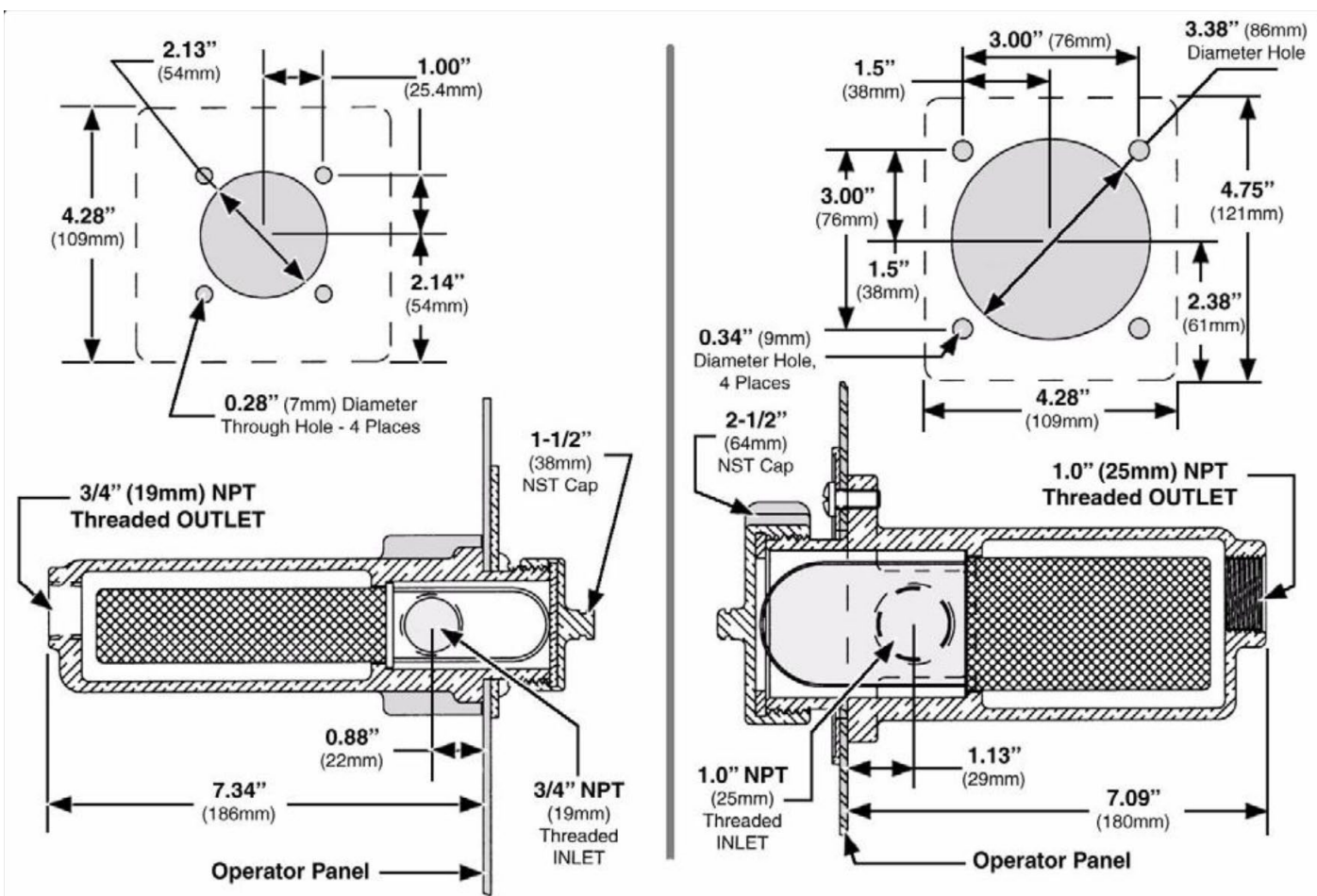


Figure 22 Water Strainer Cut-out

WATER STRAINER REQUIRED

- The CAFS system cooling water strainer is mounted to the pump panel through a 2-1/8" (54 mm) hole, with the supplied placard as shown in the **Figure 22**.
- Plumb 3/8" (9.5 mm) tubing between the tee, mounted on the bottom of the strainer, and the drain valve.



PANEL MOUNTED FOAM STRAINER

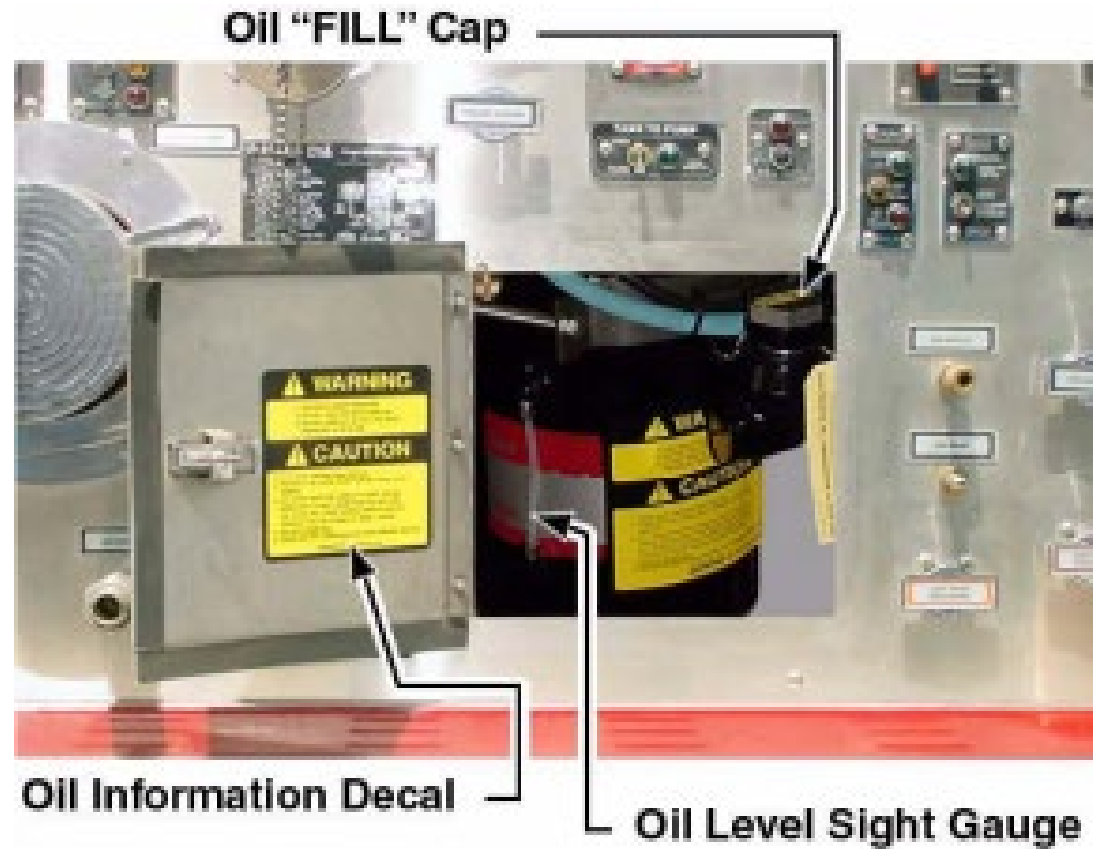
OPTIONAL

An inline strainer mounted inside the pump compartment could also be used.

FS15 (Left) for Class A foams

FS25 (right) for Class B foams

- Choose a location on the apparatus that allows gravity feed from the foam tank to the strainer inlet and from the strainer outlet to the foam pump suction connection.
- When selecting the strainer location make sure there is sufficient space behind the pump panel to attach hoses and fittings. Also make sure the inlet connection port is oriented correctly.

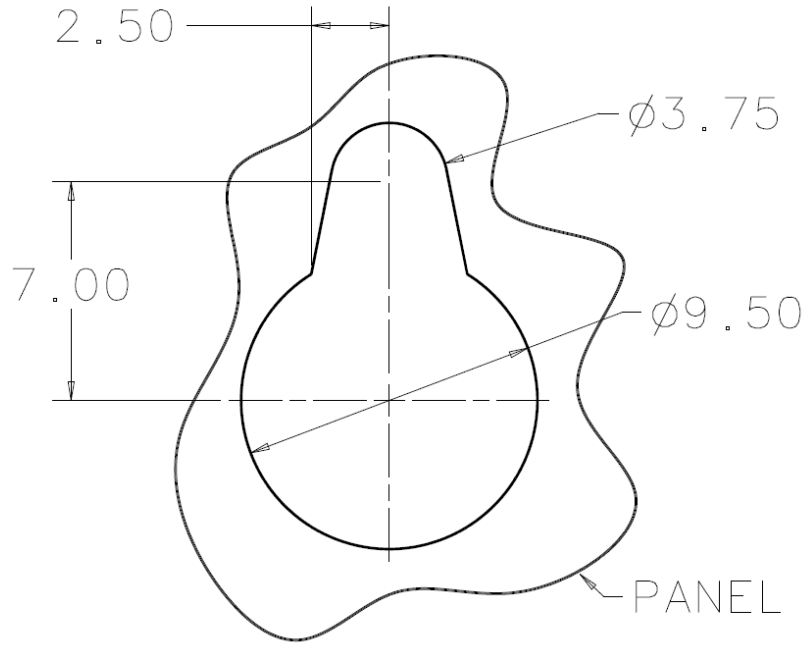


Oil Service Access Door REQUIRED

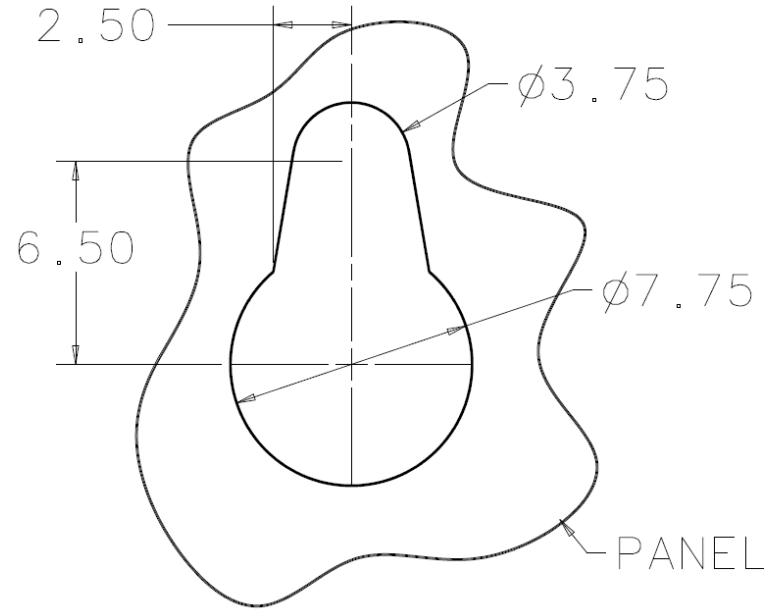
- To allow access for compressor and pump servicing, a panel with approximately 450 square inches of area and no dimension less than 18" (457 mm) must be provided.
- Include a service door to inspect the receiver tank oil level and provide access to the oil fill fitting. The service door should measure 14" x 14" (356mm) minimum. See figure below.

ⓑ1

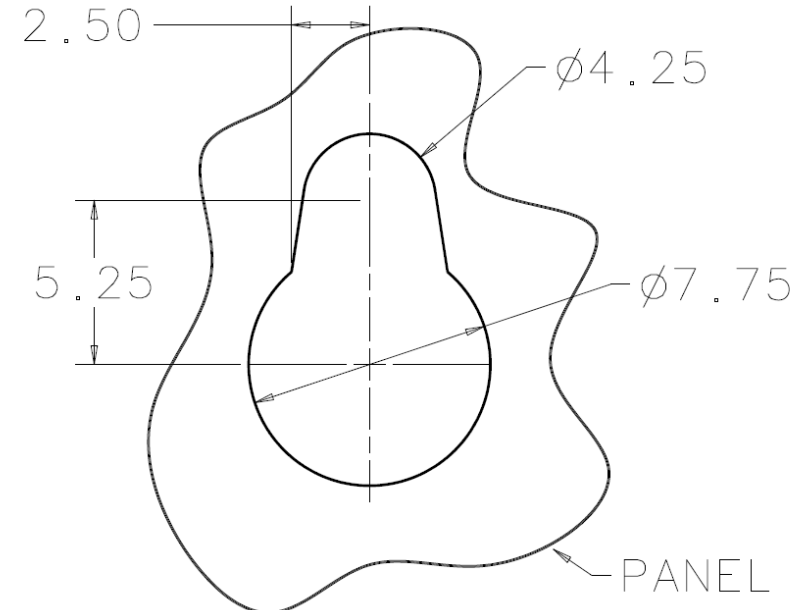
SUGGESTED MINIMUM PANEL CUTOUT CONFIGURATION



72" WIDE PUMP PANEL



74" WIDE PUMP PANEL



76" WIDE PUMP PANEL

Fill Thief for Autofill

OPTIONAL

- Fill thief is an option that is installed on the 6" suction of the pump. It requires a cutout on the panel to fit properly.
- This is only applicable for the Autofill w/fill thief option. Otherwise a pony suction can be used to supply the Autofill system.

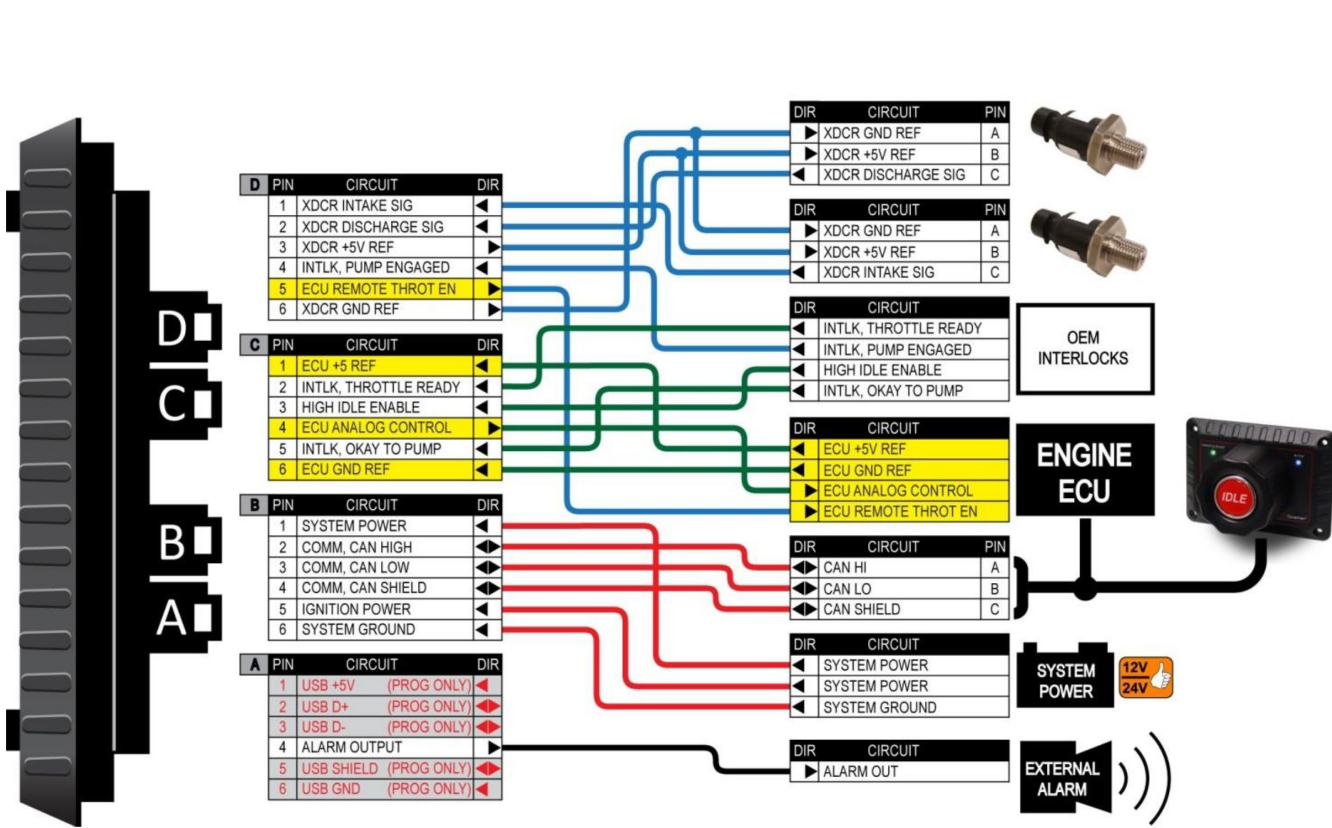
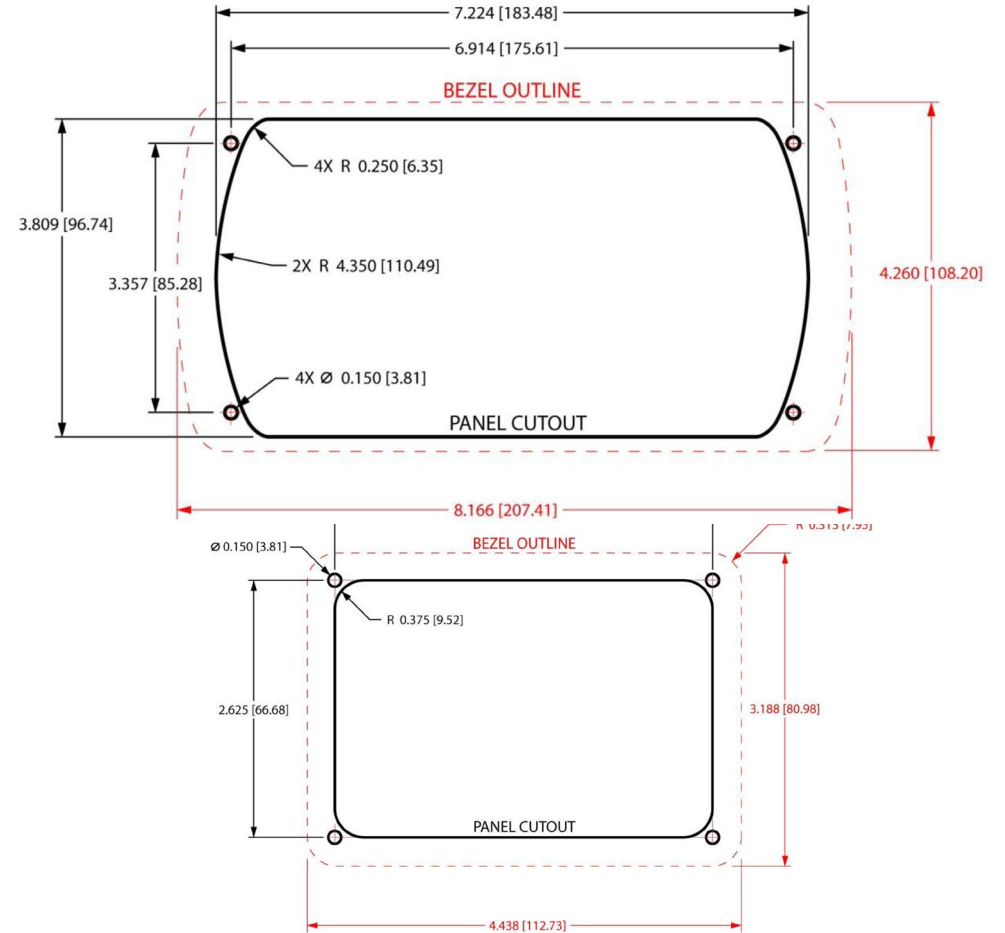
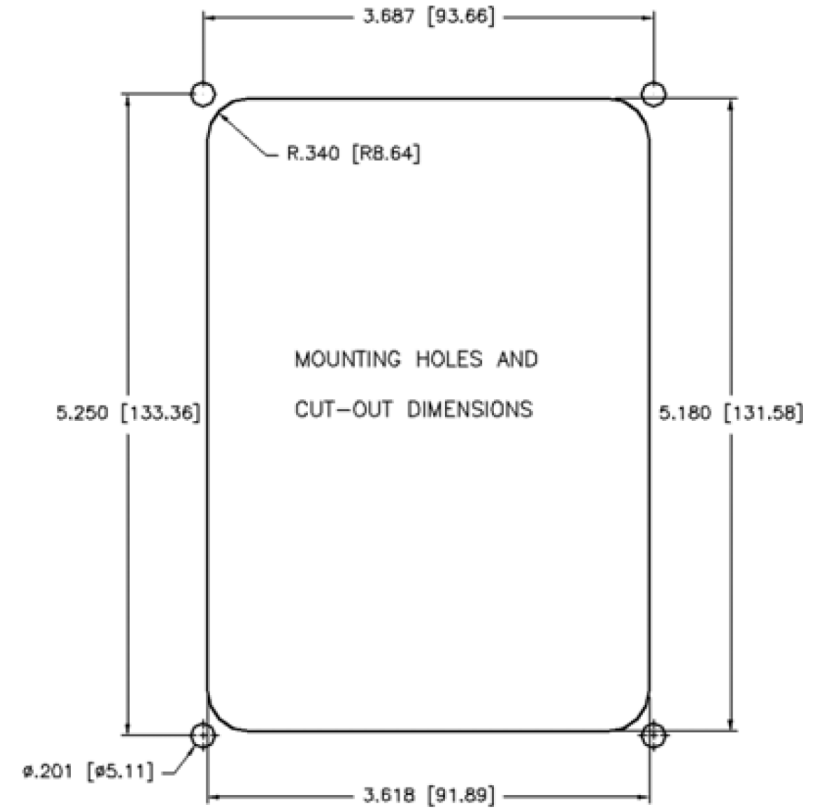
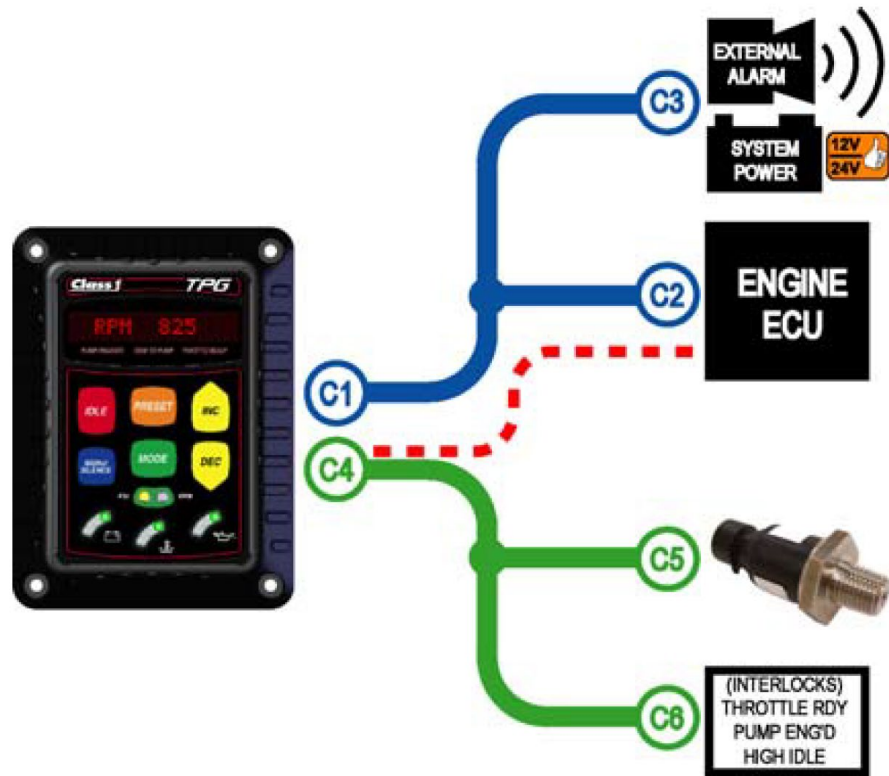


Figure 1. Wiring detail.



GOVERNOR SENTRY W/TWISTER OPTIONAL

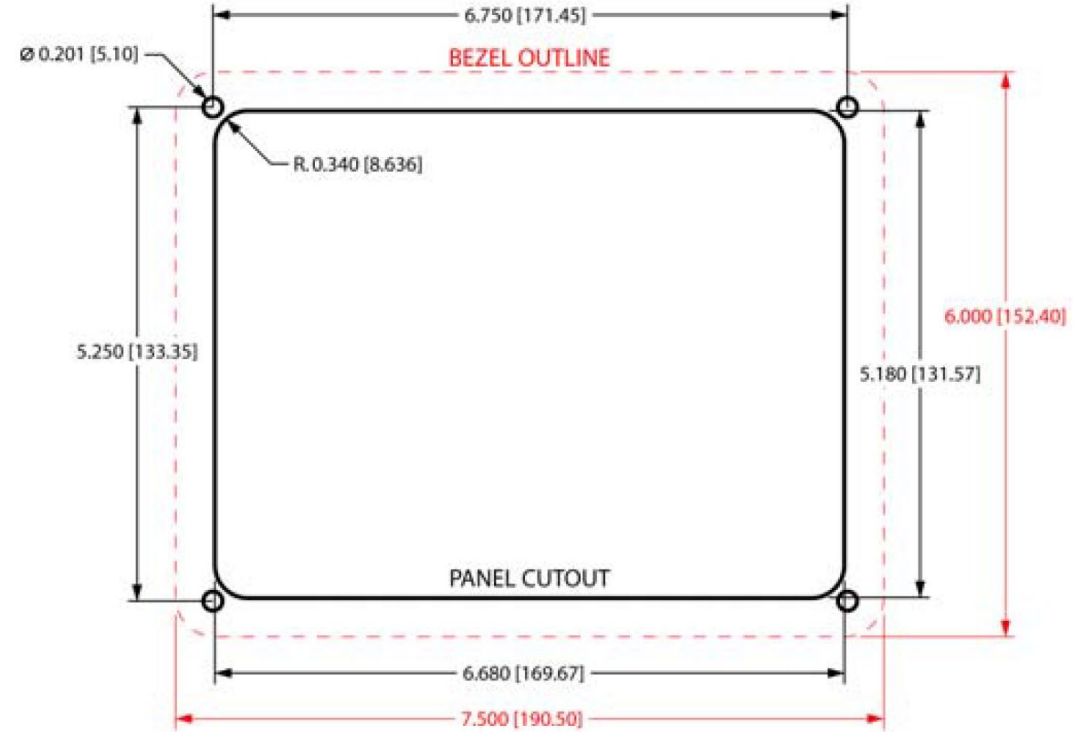
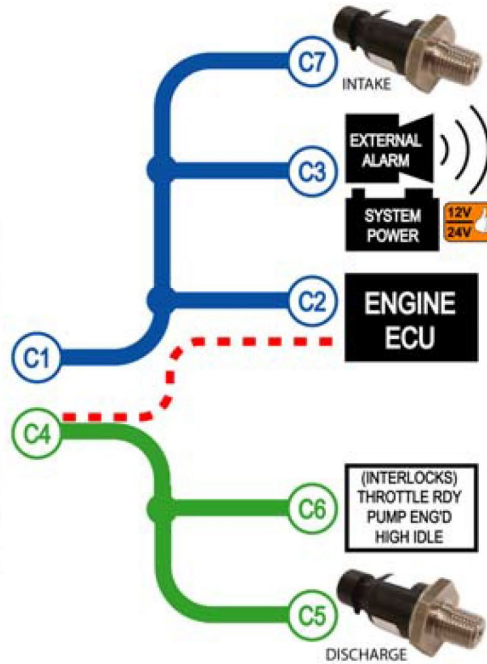
- SmartCAFS does not require a governor to work, but we do recommend using either a Sentry, TPG, or TPG+ as it provides the ability for true single step operation for the system to run. The preset can be set to run at a user defined RPM eliminating the additional step of ramping up engine speed to achieve the desired pressure.
- The new Sentry is available to run without the “Twister”, but it is an available feature for those who like having the tactile feel of a throttle versus pushing a button.



GOVERNOR TPG

OPTIONAL
Total Pressure Governor

- SmartCAFS does not require a governor to work, but we do recommend using either a Sentry, TPG, or TPG+ as it provides the ability for true single step operation for the system to run. The preset can be set to run at a user defined RPM eliminating the additional step of ramping up engine speed to achieve the desired pressure.
- The TPG provides a user friendly operation with the addition of presets and ability to run in either RPM or Pressure mode.



GOVERNOR

TPG+

OPTIONAL
Total Pressure Governor+

- SmartCAFS does not require a governor to work, but we do recommend using either a Sentry, TPG, or TPG+ as it provides the ability for true single step operation for the system to run. The preset can be set to run at a user defined RPM eliminating the additional step of ramping up engine speed to achieve the desired pressure.
- The TPG+ builds on the TPG system by adding on digital intake and discharge master gauge pressure in addition to engine data.