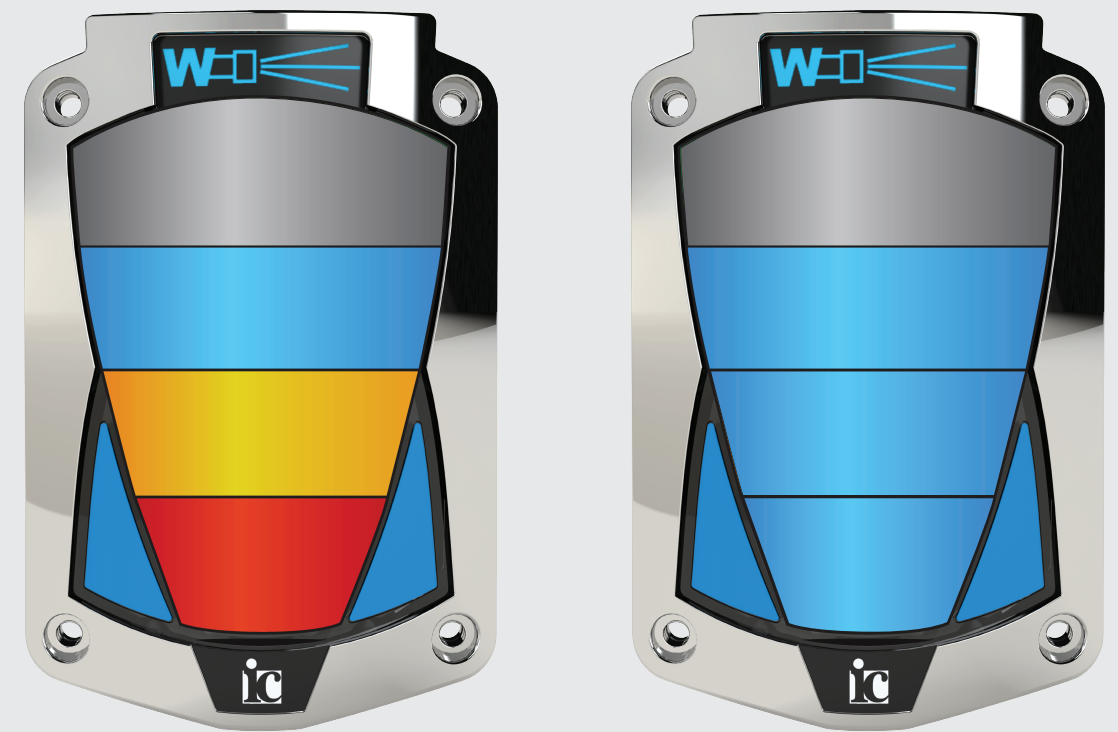




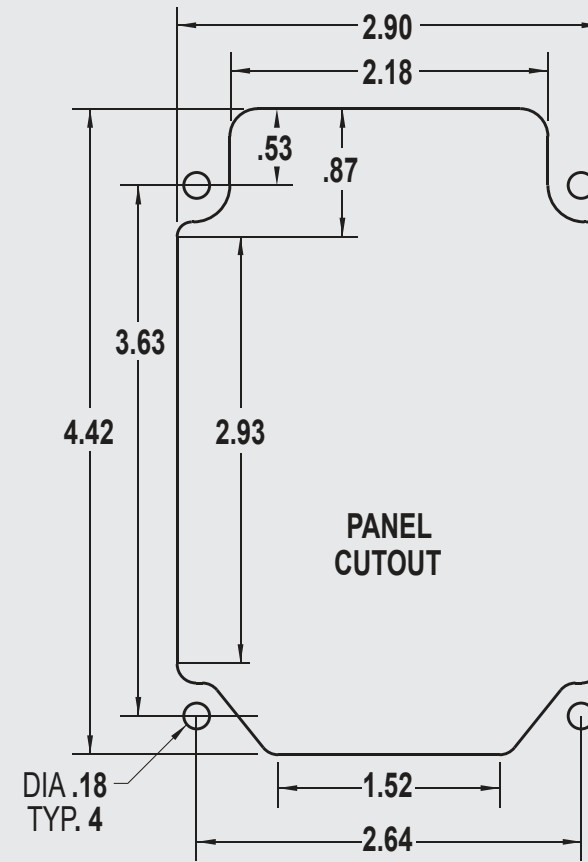
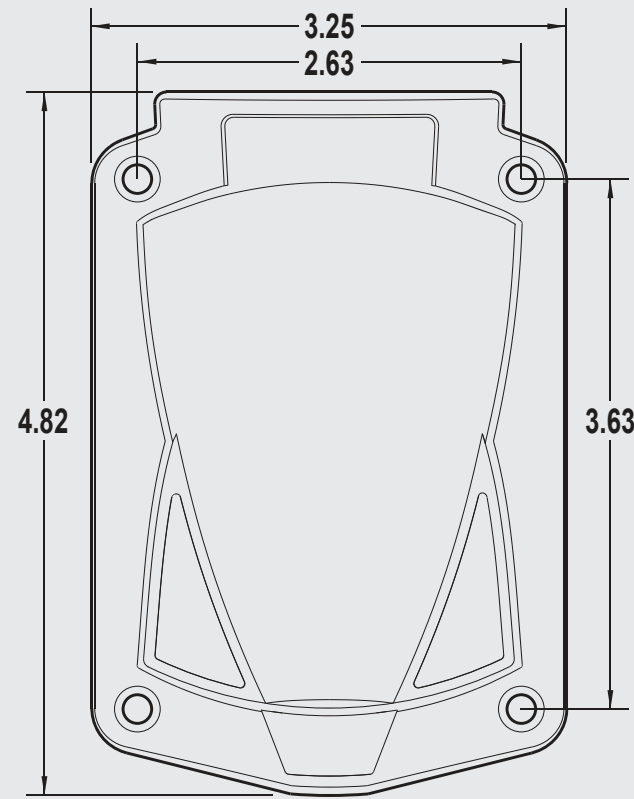
Innovative Controls Inc. Soft-Glo Level Monitors Overview

- **Soft-Glo diffused lens eliminates hot spots**
- **4 level display**
- **Can be accurately calibrated for any shape tank**
- **180 degree viewing angle**
- **Multiple user-selectable color schemes**
- **Highly accurate, highly reliable pressure sensor**
- **Automatic dimming or fixed brightness levels**
- **Many bezel and labelling options**
- **Adjustable alarm or auto tank fill control output**
- **J1939 CAN-based communication**
- **-40C to +85C (-40F to +185F) operating temperature**
- **Protection against reverse power polarity**
- **12VDC or 24VDC operation**

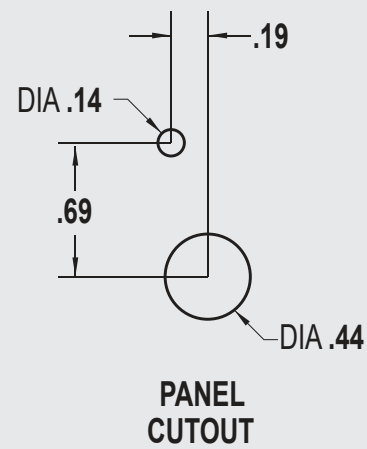
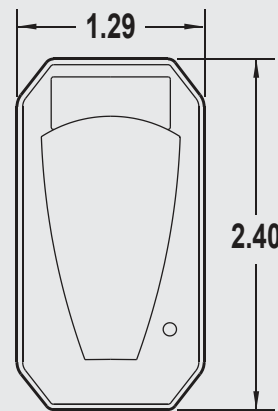


Multiple user-selectable color schemes

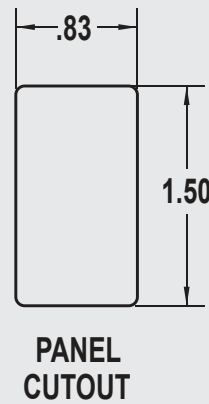
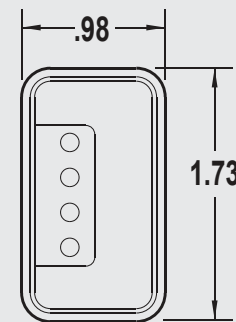
Main and Remote Displays



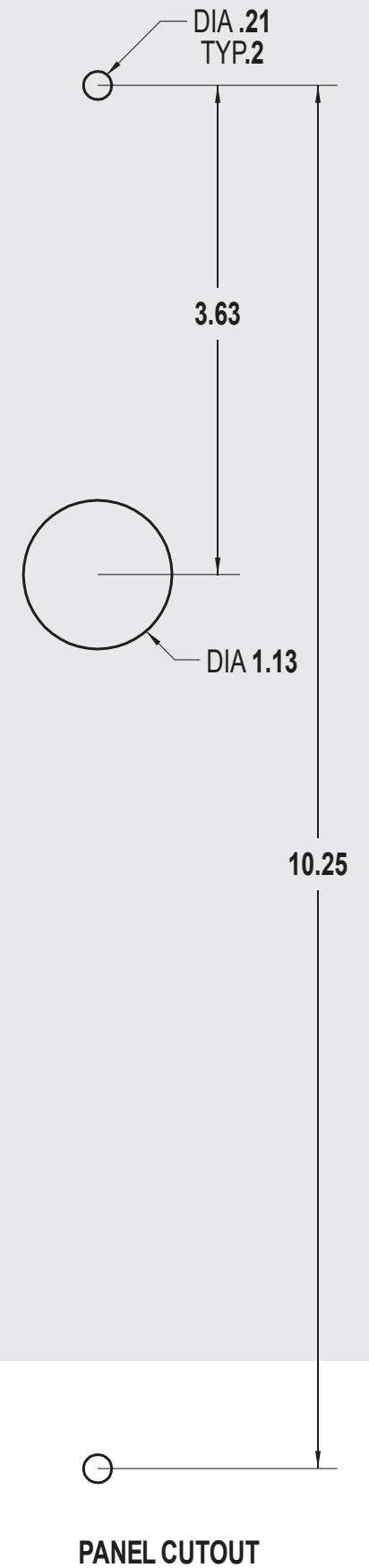
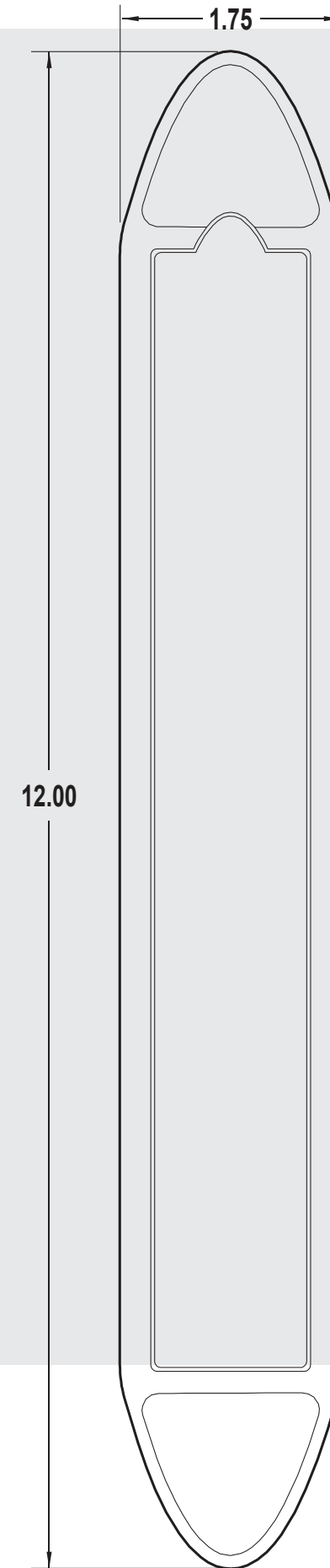
Mini Dash Display

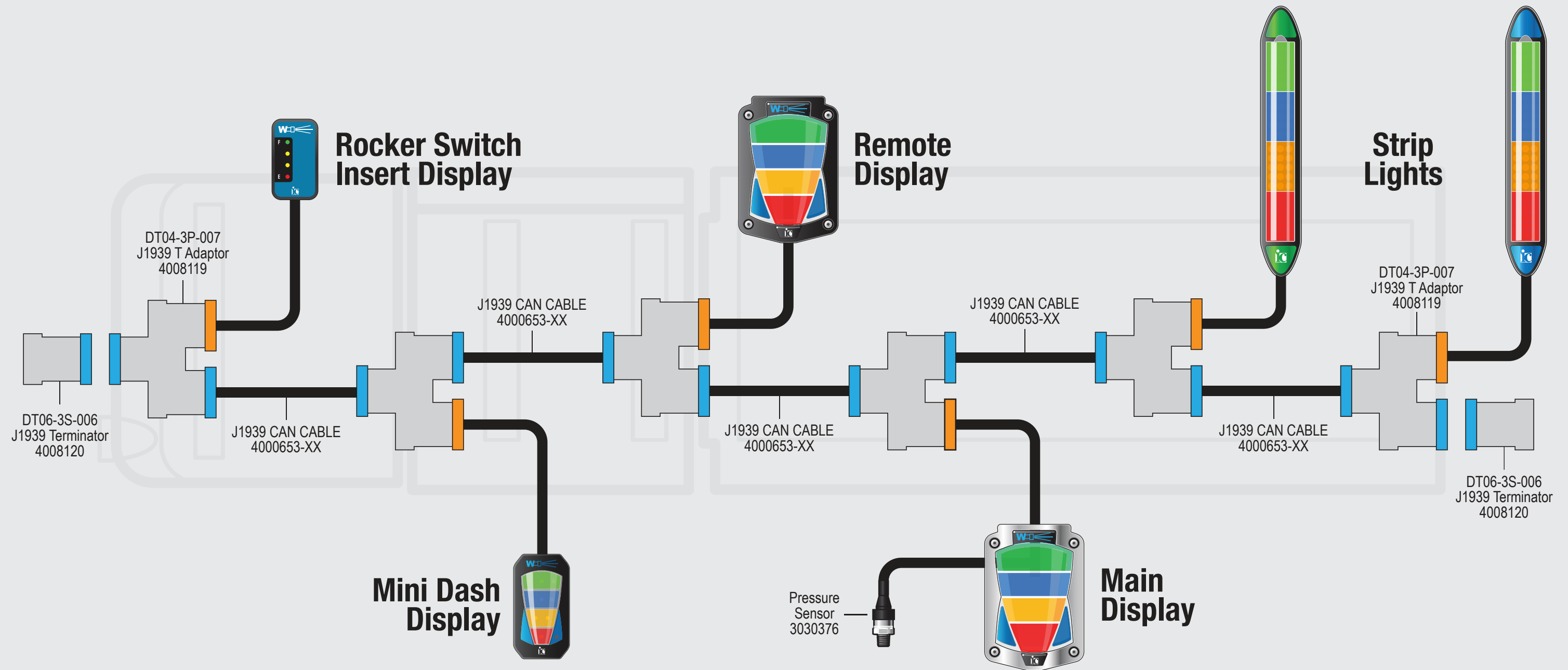


Rocker Switch



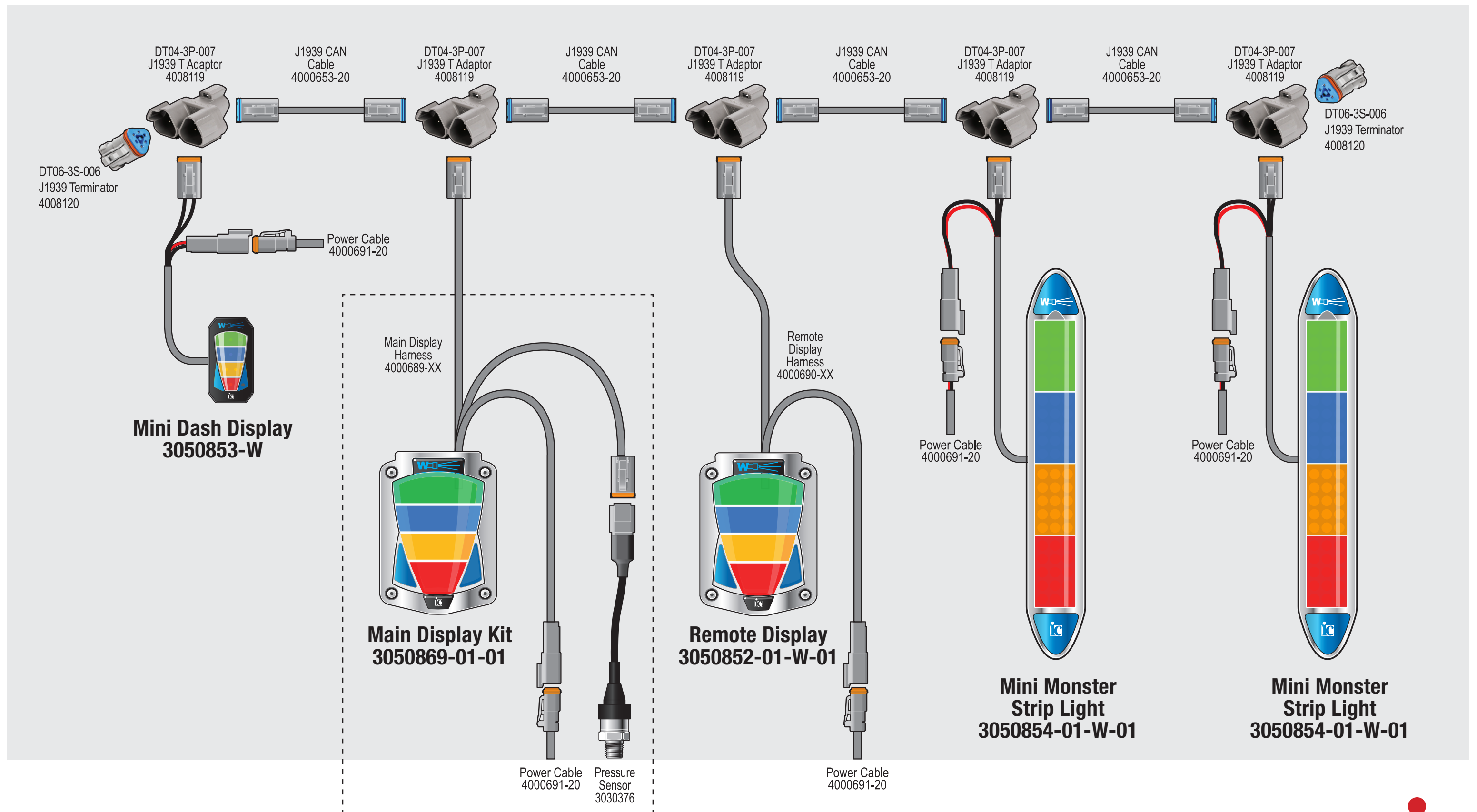
Mini Monster Strip Light Display





Soft-Glo Level Monitors CAN LAYOUT / WIRING SPECS



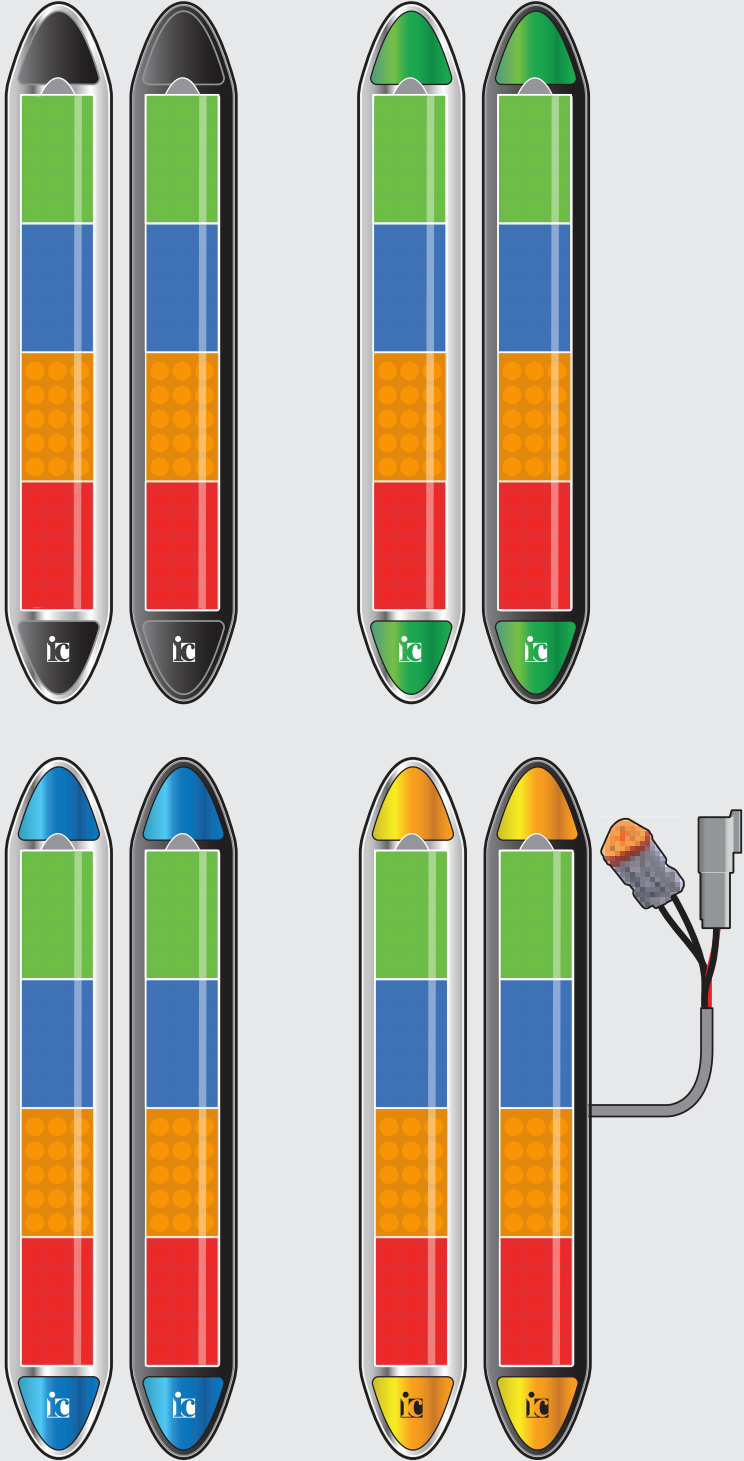
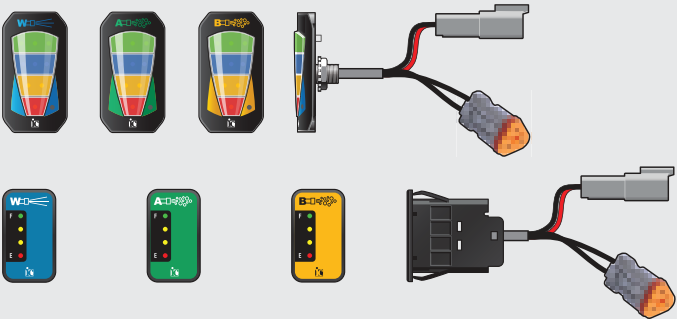
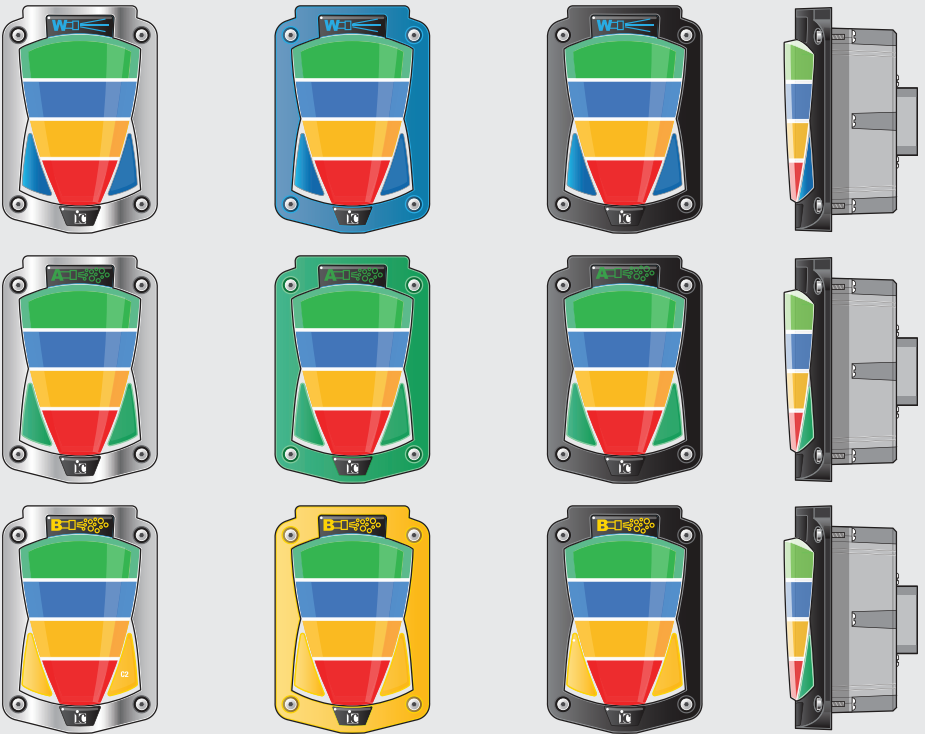
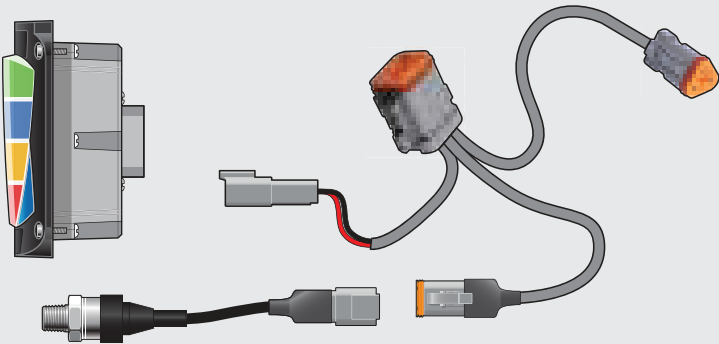


Soft-Glo Level Monitors Wiring Schematic



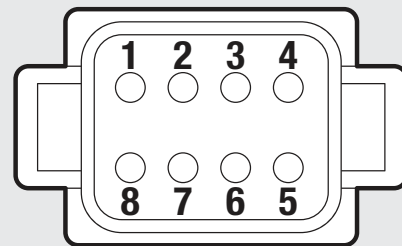
Description	Part Number
Soft-Glo Water Level Display Kit	3050869-XX
Soft-Glo Class A Foam Level Display Kit	3050870-XX
Soft-Glo Class B Foam Level Display Kit	3050871-XX
Soft-Glo Generic Foam Level Display Kit	3050872-XX
Water Display with Chrome Bezel	3050852-01-W
Water Display with Black Bezel	3050852-02-W
Water Display with Blue Bezel	3050852-03-W
Class A Foam Display with Chrome Bezel	3050852-01-FA
Class A Foam Display with Black Bezel	3050852-02-FA
Class A Foam Display with Green Bezel	3050852-04-FA
Class B Foam Display with Chrome Bezel	3050852-01-FB
Class B Foam Display with Black Bezel	3050852-02-FB
Class B Foam Display with Yellow Bezel	3050852-05-FB
Mini Dash Water Display	3050853-W
Mini Dash Foam A Display	3050853-FA
Mini Dash Foam B Display	3050853-FB
Rocker Switch Insert Water Display	3050846-W
Rocker Switch Insert Foam A Display	3050846-FA
Rocker Switch Insert Foam B Display	3050846-FB
Generic Mini Monster Display wITH Chrome Bezel	3050854-01-G
Generic Mini Monster Display with Black Bezel	3050854-02-G
Mini Monster Water Display with Chrome Bezel	3050854-01-W
Mini Monster Water Display with Black Bezel	3050854-02-W
Mini Monster Foam A Display with Chrome Bezel	3050854-01-FA
Mini Monster Foam A Display with Black Bezel	3050854-02-FA
Mini Monster Foam B Display with Chrome Bezel	3050854-01-FB
Mini Monster Foam B Display with Black Bezel	3050854-02-FB

Add -NN suffix to part number for customer logo option



Soft-Glo Level Monitors Display Part Numbers

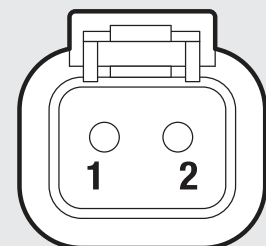




Main And Remote Displays

Deutsch DT15-08SA Connector	
Terminal	Description
1	+12VDC (Battery) Power
2	Ground
3	Pressure Transducer Sensor Ground
4	Pressure Transducer Output Signal
5	Pressure Transducer Power +5V
6	Alarm or Automatic Tank Fill Control, Active High at 20% or less, Active Low at 80%
7	J1939 CAN Low Signal
8	J1939 CAN High Signal

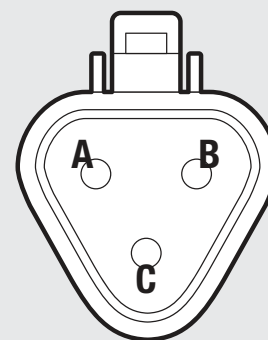
Mating connector is Deutsch DT06-08SA Plug



Mini Monster Strip Light, Mini Dash and Rocker Switch Insert Displays: Power

Deutsch DT04-2P Connector	
Terminal	Description
1	+12VDC (Battery) Power
2	Ground

Mating connector is Deutsch DT06-04S Plug



Mini Monster Strip Light, Mini Dash and Rocker Switch Insert Displays: Communication

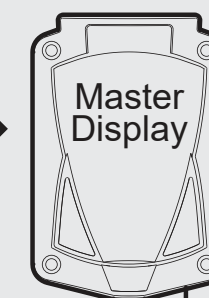
Deutsch DT06-3S Connector	
Terminal	Description
A	J1939 CAN High Signal
B	J1939 CAN Low Signal
C	not used

Mating connector is Deutsch DT04-3P Plug

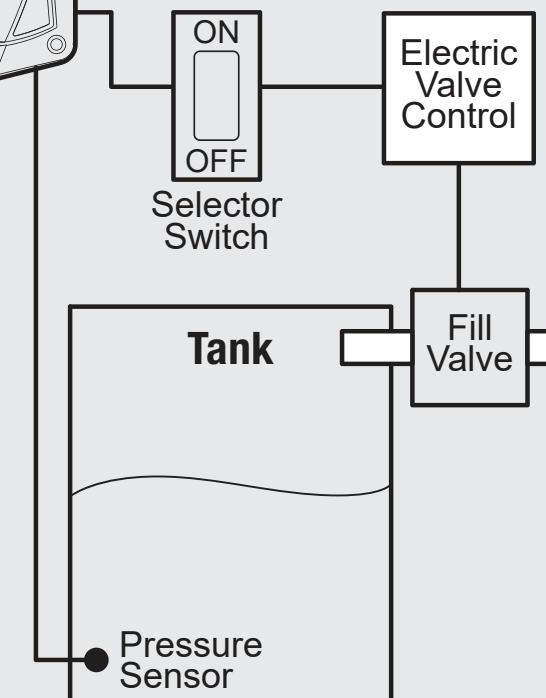
ACCESSORY PART NUMBERS

Description	Part Number
Tank Pressure Transducer	3030376
Wiring Harness for Main Display	4000689-XX
Wiring Harness for Additional Displays	4000690-XX
Power Cable	4000691-XX
J1939 CAN Cable	4000653-XX
J1939 T-Adaptor	4008119
J1939 Termination Plug	4008120

-XX suffix is cable length in feet



Soft-Glo Master can be used as part of an Auto Tank Fill System



Remote Display Options

The Soft-Glo main display can also be used as a remote display. The display senses when a pressure sensor is attached and automatically switches between functioning as a main or remote display. The Soft-Glow Mini-Cab display is available in two form factors, a miniature version of the main display and a rectangular package that fits into a standard rocker switch panel cutout.

The Soft-Glo Mini-Monster strip light can be used to provide a remote display on the outside of the fire apparatus. The remote displays automatically adjust to the color scheme selected on the main display.

Calibration of Tank Level and Shape

The Soft-Glo main display can be calibrated to accurately measure the volume of rectangular, t-shaped, or elliptical shaped tanks. Nonstandard shaped tanks can be calibrated with either the 4-point or constant-fill methods to provide the highest accuracy possible. The calibration mode is enabled by the installer with a magnet.

J1939 Compatible CAN Communication Link

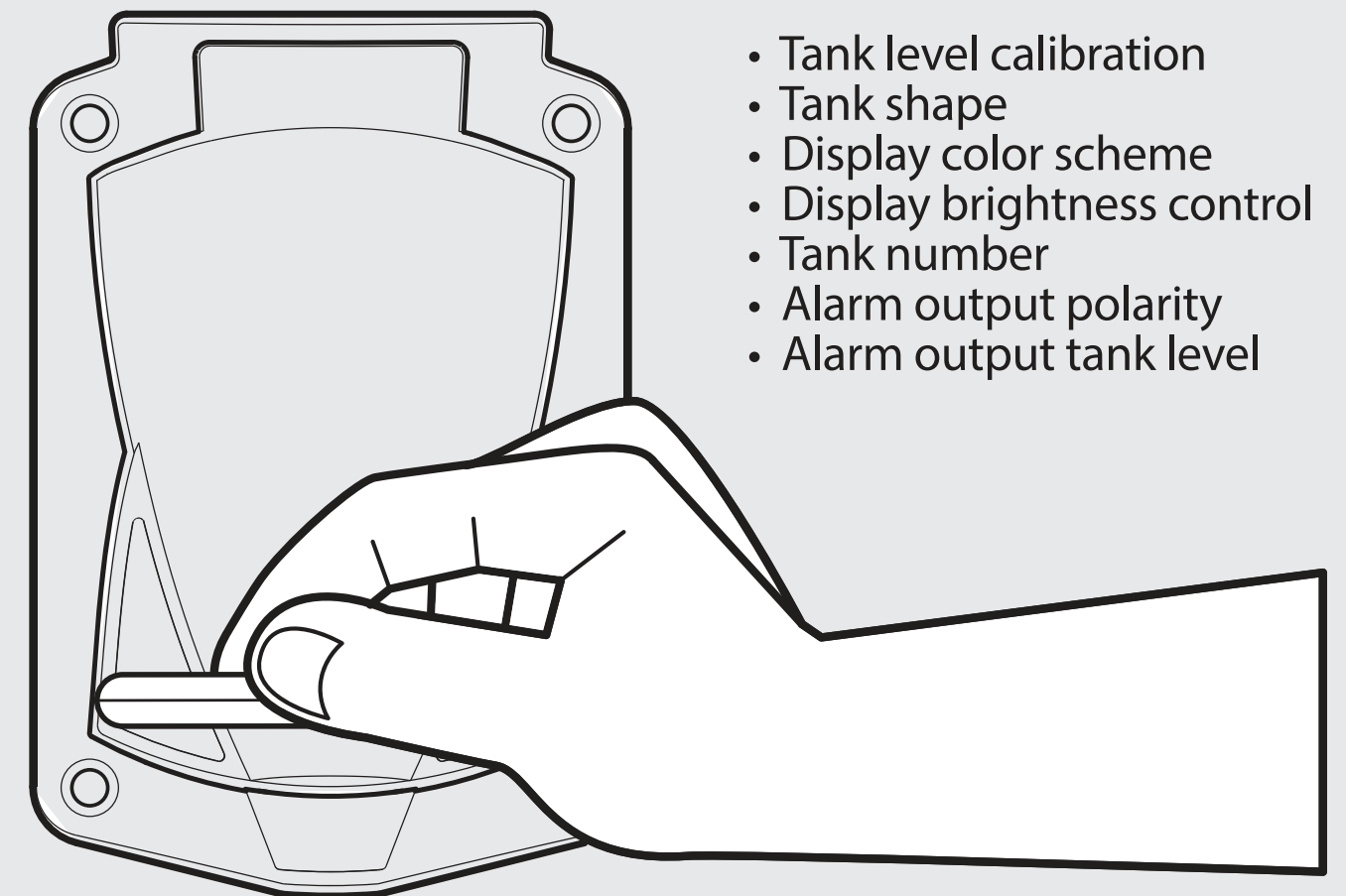
The Soft-Glo system displays interface using J1939 CAN based communication to simplify installation. The Soft-Glo displays can operate with their own dedicated CAN network or on a shared J1939 network. The Soft-Glo system communication format can handle up to four main displays measuring different tank levels on a single J1939 network.

Alarm Output

The Soft-Glo Main display has a configurable discrete output that can be used to control automatic tank fill systems and external alarms. The output can be configured as a low or high side output that activates at a predetermined tank level.

Configuration

The Soft-Glo Main display is configured by the installer using a magnet. Two magnetic sensors are used to navigate the user interface to configure the following display parameters:



- Tank level calibration
- Tank shape
- Display color scheme
- Display brightness control
- Tank number
- Alarm output polarity
- Alarm output tank level