

Tools Needed for Installation



Stainless Screws (X4) 5/16" or M8





Cable Glands (X3 min)



DuoCept®

Separately Purchased Parts



Parts List

Specifications and Regulatory

See Product Label



SN XXXXX WK YR 14 **Temperature Range**

-40 to +140 Degrees F (-40 to +60 Degrees C) Operating: -50 to +185 Degrees F (-45 to +85 Degrees C)

Power Requirement:

Nominal Voltage: **Consumption:**

12 to 24 VDC (-0.5, +8 VDC) 9.6 Watts maximum at 24 VDC 4.8 Watts maximum at 12 VDC

6.5 lb (2.9 kg) Weight:

Interfaces

Inputs:

• TB4 Sensor Inputs: EN 13922 compliant

• TB3 Auxiliary: I.S. input switch closure less than 100 ohms

Outputs:

• TB7: 2.0A at 32 VDC maximum Non-intrinsically safe relay

• TB6 Rack interface: EN 13922 compliant I.S. interface for 2/5- wire sensors

• TB6: Intrinsially safe relay output. 200mA at 32 VDC maximum or 500mA at 16 VDC maximum

Wilmington, MA 01887, USA

www.scully.com



call Scully Signal Company at 1-800-272-8559 or email sales@scully.com



scully IntelliCheck3 MULTI-LEVEL DYNACHECK® Q-14/-PERMIT @ [] AUX IN @ --LOAD RACK @ Chi-POWER (



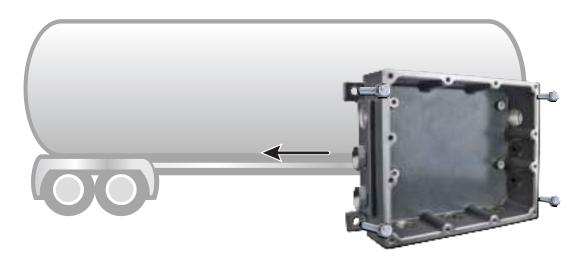
Quick Start Guide for Multi-Level

> Featuring Dynamic Self-Checking® www.scully.com

Mechanical Installation

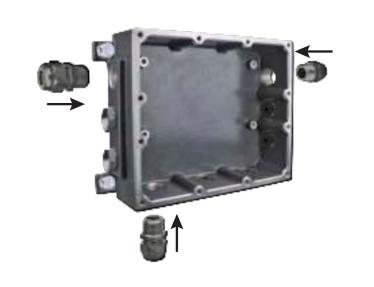
No drilling or welding to tank's frame should take place without first consulting tank manufacturer. Before beginning installation, tank compartments must be completely drained of liquid and be vapor-free.

1. Remove Electronics Module from Housing, and Mount Housing to Truck

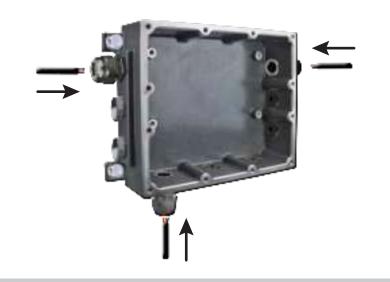


2. Install Cable Glands

(Use Anti Sieze on all threaded fittings including plugs)



3. Install Power, Sensor and Socket Wire

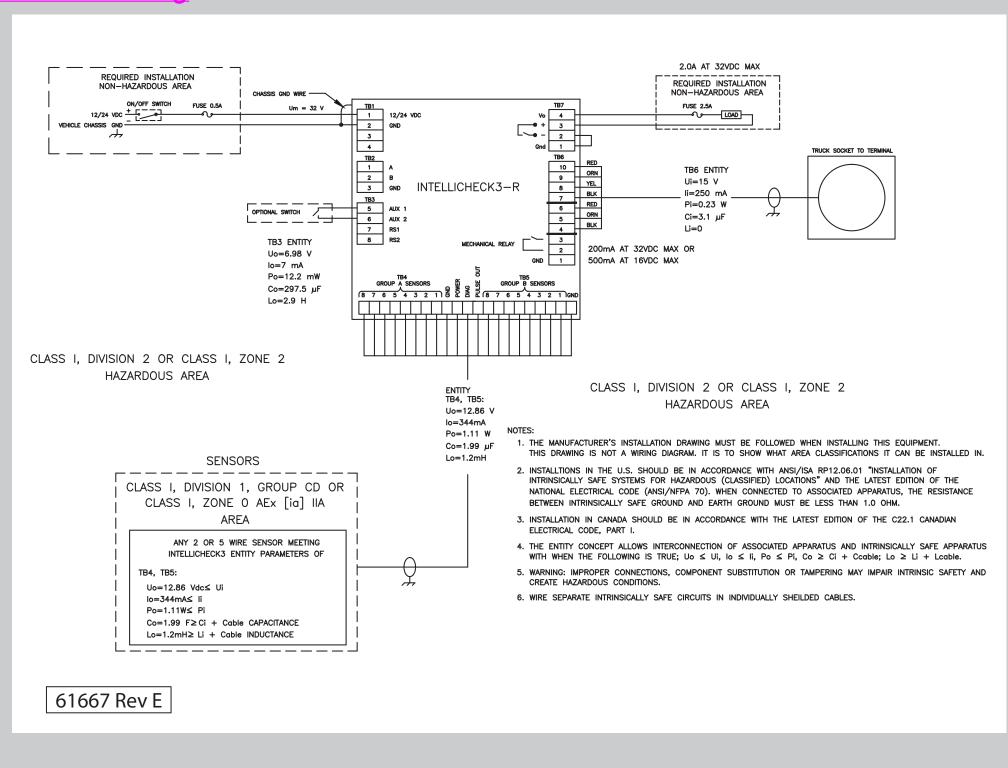


4. Install Electronics Module

(Seal conduit against water, a major source of failures)



Control Drawing

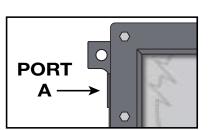


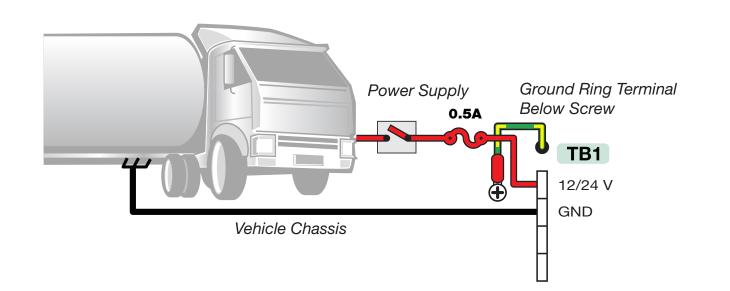
right © 2017 Scully Signal Company. Dynacheck, Dynamic Self-Checking, Dynamic Self-Testing, Faylsafe, Intellicheck3,

For more information and 24 hour technical assistance,

Electronic Installation

1. Wire in Power





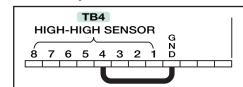
2. Program Module (Example of 4 Compartment OVP programming)

a. Attach jumpers as shown.

b. Apply power to the IntelliCheck®3. The indicator lights representing both overfill and retained configured sensors (1,2 and 3) will be flashing synchronously, alternating between red and green, with the indicator light representing the highest configured sensor (4) flashing at twice the rate of the other configured sensors. All remaining sensor indicator lights (5 thru 8) will be off. The Dynacheck, Aux In, and Power indicator lights will be steady green. Permit and Load Rack lights will be red.

c. Leave the unit powered up for approximately 10 seconds. Then remove power from the IntelliCheck®3 and remove the programming jumper.





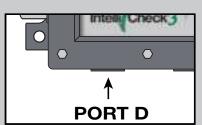
Jumper 1: GND to TB4 Highest Compartment Number

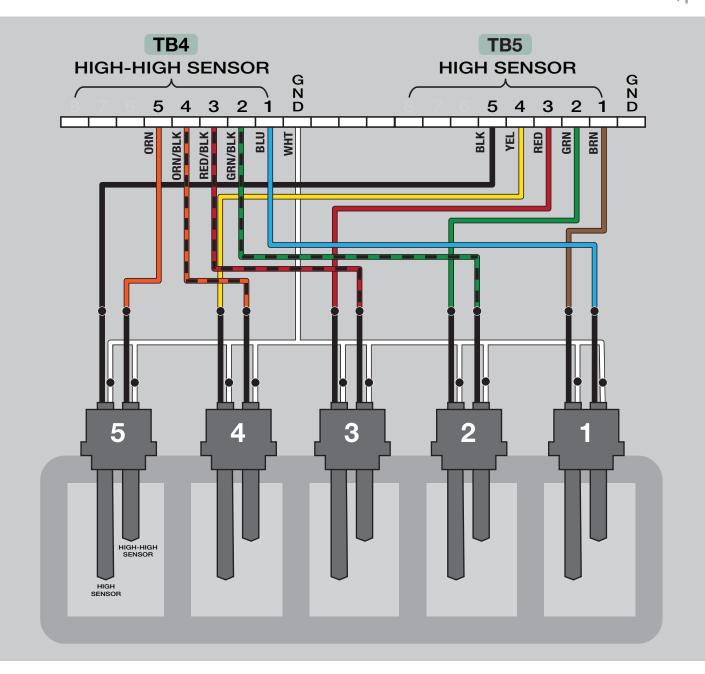
Jumper 2: None



Before applying DC battery power to unit, ensure that polarity of the voltage supplied to TB1 is correct.

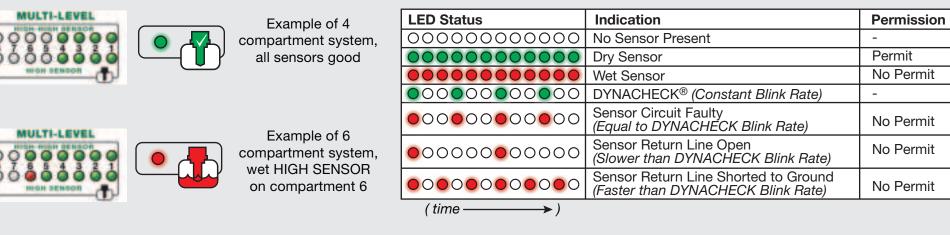
3. Wire Sensors





Operations for 2-Wire Multi-Level Sensor Lights





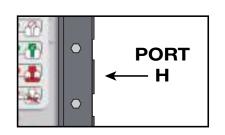
Intellicheck®3 Multi-Level Output Matrix						
High	High-High	Bypass	API Socket	Mapped IS ¹	Other IS ²	Non-IS
Dry	Dry	N/A	Enabled	Enabled	Enabled	Enabled
Wet	Dry	Off	Disabled	Enabled	Enabled	Disabled
Wet	Dry	On	Enabled	Enabled	Enabled	Enabled
Wet	Wet	Off	Disabled	Disabled	Enabled	Disabled
Wet	Wet	On	Disabled	Disabled	Enabled	Disabled
Disabled or open switch						
Enabled or closed switch						
¹ - The output that corresponds to the wet compartment						

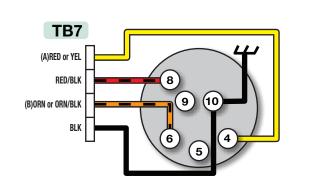
- The other IS outputs that do not correspond to the wet compartment

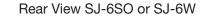
- If a High sensor becomes wet while filling, the API output on TB7 and non-I.S. switch on TB1 will be disabled but the mapped I.S. switch on TB6 will remain enabled.

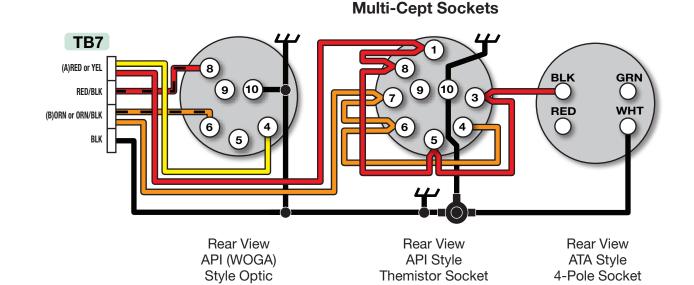
 Pressing the bypass switch will reenable the API output and non-I.S. switch in this case.
- If the Intellicheck3 Multi-level is powered on with a wet high sensor, all outputs will be disabled. Pressing the bypass switch will reenable all outputs in this case.
- If a High-High sensor becomes wet while filling, the API output on TB7, the non-I.S. switch on TB1, and the mapped I.S. switch will be disable. All other I.S. switches on TB6 with dry High-High sensors on their corresponding compartments will remain enabled. Pressing the bypass switch will not enable any outputs in this case.
- If the Intellicheck3 Multi-level is powered on with a wet High-High sensor, all outputs will be disabled. Pressing the bypass switch will not enable any outputs in this case.

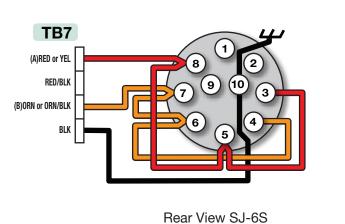
4. Wire Sockets











Alternate SAE J560 Single Sockets

TB7

(A)RED or YEL

(B)ORN or ORN/BLK

BLK

WHT

BRN

BBLU

GRN

BLK

WHT

BRN

BBLU

GRN

RED/BLK

(B)ORN Or ORN/BLK

(B)ORN OF ORN/BLK

BLK

WHT

BRN

BRN

BBLU

GRN

RED/BLK

(B)ORN OF ORN/BLK

(B)ORN OF ORN/BLK

BLK

WHT

BRN

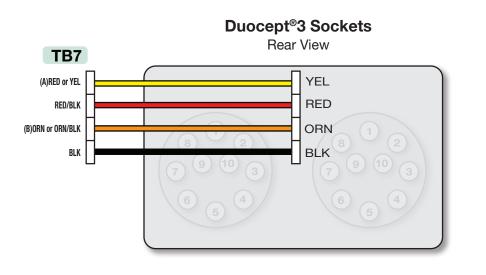
BBLU

GRN

BBLU

FE

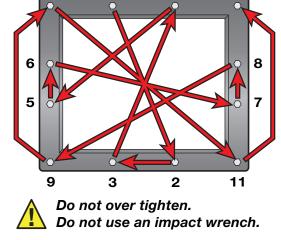
BLU



Close Unit Using Torque Sequence

Place the gasket, window and cover onto the housing and tighten in numeric sequence as shown. After the cover is secure, power can be supplied to the unit for diagnostic evaluation.

Place the gasket, window and cover on to the enclosure housing and lightly tighten all twelve stainless steel hex bolts. Repeat by firmly and evenly tightening to approximately 1.6 N-m (14 inch lbs) per bolt.



Operations Status Lights

