

### 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

Intelli Check 3 scully

#### **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:

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

6.5 lb (2.9 kg)

Interfaces

Weight:

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

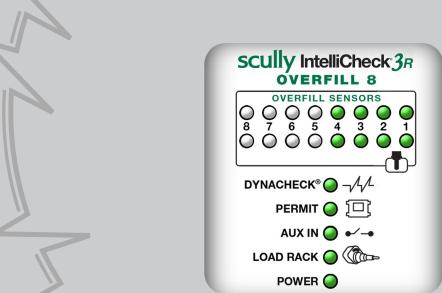
• TB6: Intrinsially safe relay output. 200mA at 32 VDC maximum or 1.6A at 16 VDC maximum

#### **Scully Signal Company** Wilmington, MA 01887, USA www.scully.com



For more information and 24 hour technical assistance, call Scully Signal Company at 1-800-272-8559 or email sales@scully.com

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# **Quick Start Guide** for Overfill 8

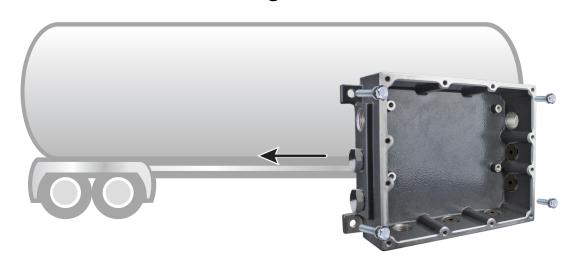
Featuring Dynamic Self-Checking® www.scully.com

### **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

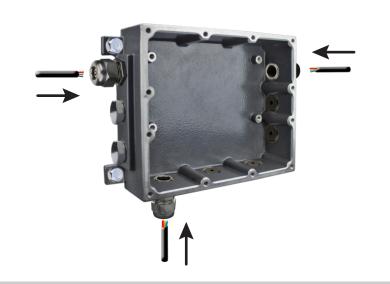


### 2. Install Cable Glands

(Use Anti Sieze on all threaded fittings including plugs)

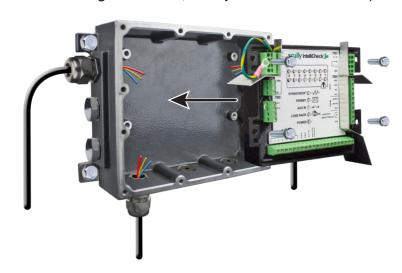


## 3. Install Power, Sensor and Socket Wire

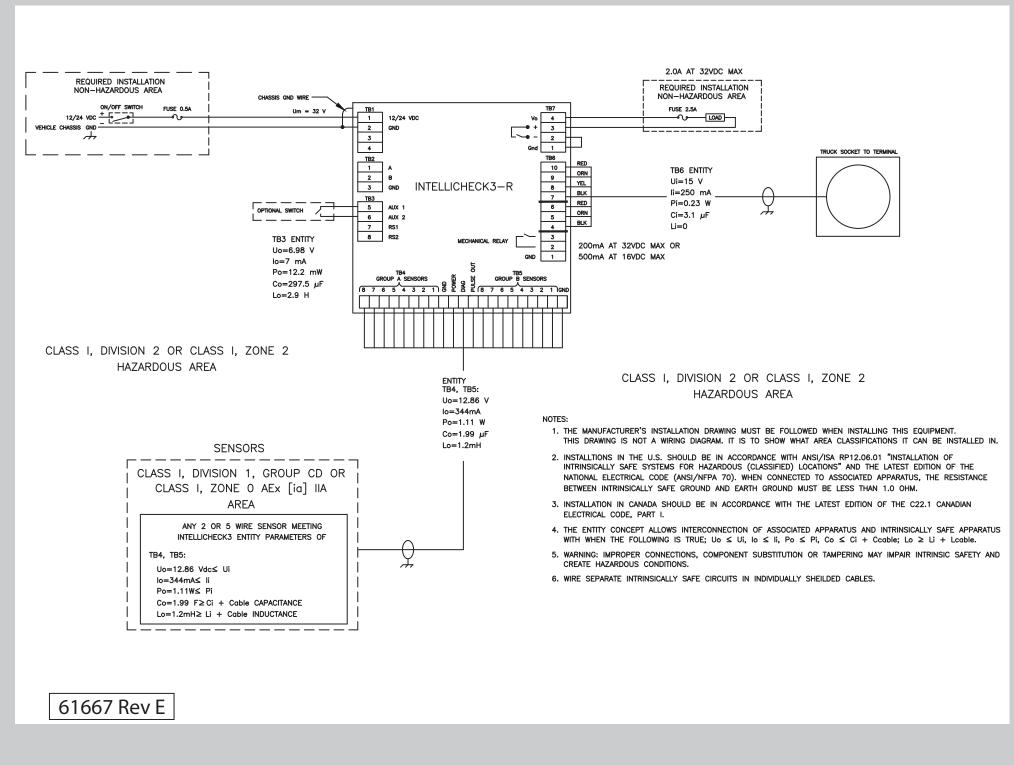


## 4. Install Electronics Module

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

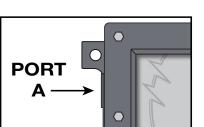


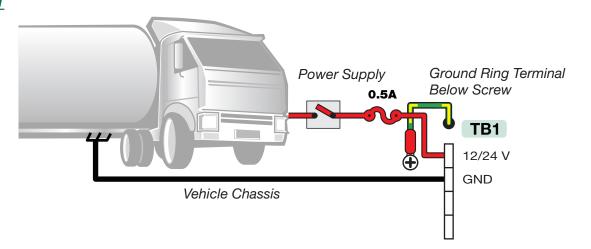
## **Control Drawing**



#### Electronic Installation

### 1. Wire in Power





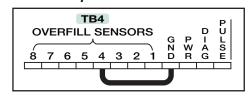
### 2. Program Module (Example of 4 Compartment OVP programming)

a. Attach jumpers as shown according to sensor type & parallel vs. series connection (for 5-Wire only).

b. Apply power to the IntelliCheck®3. The indicator lights representing 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, Permit, Aux In, Load Rack, and Power indicator lights will

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

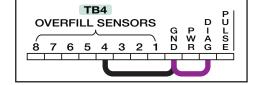
#### 2-Wire Optic Sensors in Parallel



Jumper 1: GND to TB4 Highest Compartment Number

Jumper 2: None



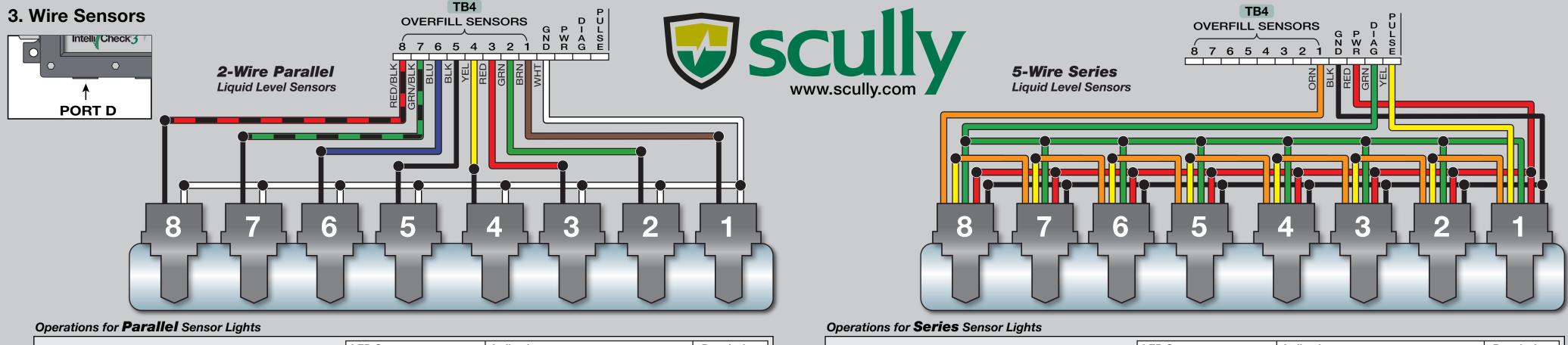


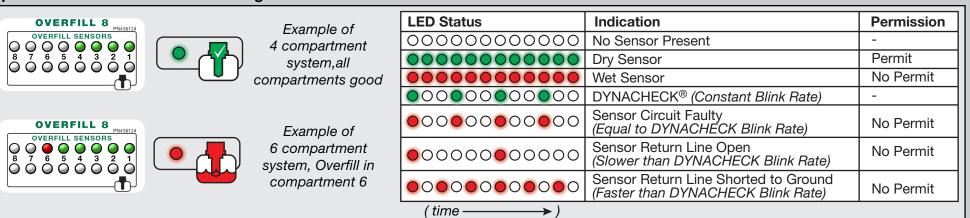
Jumper 1: GND to TB4 Highest Compartment Number

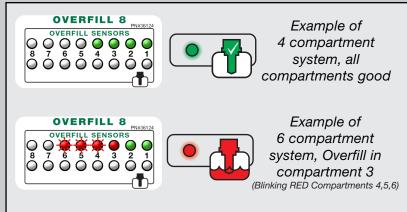
Jumper 2: GND to DIAG



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

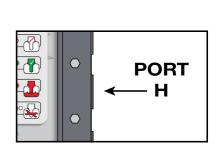






LED Status	Indication	Permission
00000000000	No Sensor Present	-
00000000000	Dry Sensor	Permit
0000000000	Wet Sensor	No Permit
00000000000	DYNACHECK® (Constant Blink Rate)	-
0000000000	Sensor Circuit Faulty (Equal to DYNACHECK Blink Rate)	No Permit
•00000•0000	Sensor Return Line Open (Slower than DYNACHECK Blink Rate)	No Permit
0000000000	Sensor Return Line Shorted to Ground (Faster than DYNACHECK Blink Rate)	No Permit
( time → )		

#### 4. Wire Sockets



TB6

RED

ORN

YEL

BLK

(A)RED

(B)ORN

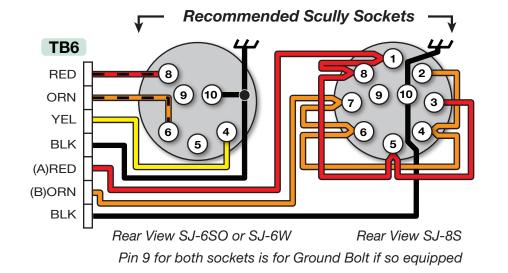
Alternate Single Sockets

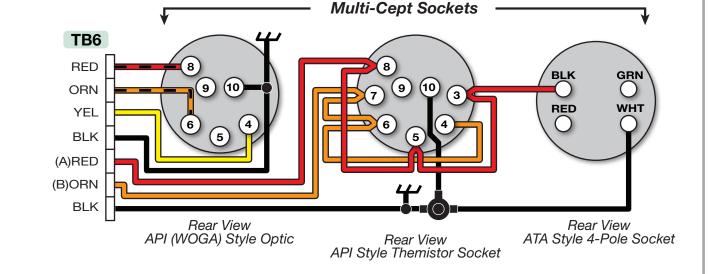
Pin 9 for both sockets is for Ground Bolt if so equipped

Rear View SJ-6S

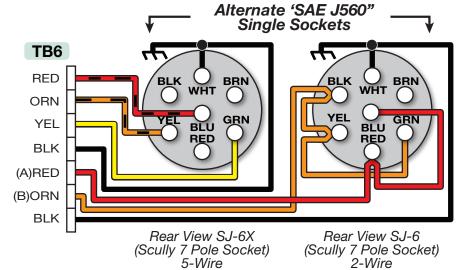
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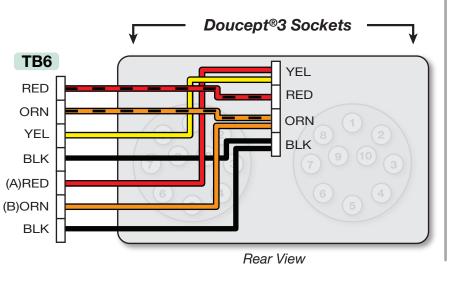
Rear View SJ-6SO or SJ-6W





## TB6 RED ORN YEL BLK (A)RED (B)ORN

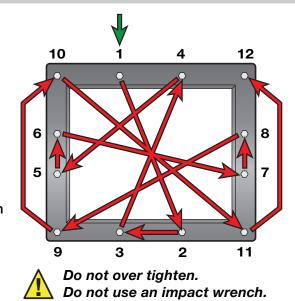




## **Close Unit Using Torque Sequence**

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 4.07 N-m (36 inch lbs) per bolt.



### **Operations Status Lights**

