



**61675**

**Intellicheck  
3R Onboard  
Controller**



## scully 61675 Intellicheck3R Onboard Controller User Guide

[Home](#) » [scully](#) » [scully 61675 Intellicheck3R Onboard Controller User Guide](#) 

### Contents

- [1 scully61675 Intellicheck3R Onboard Controller](#)
- [2 Product Usage Instructions](#)
- [3 Parts List](#)
- [4 Tools Needed for Installation](#)
- [5 Specifications and Regulatory](#)
- [6 Mechanical Installation](#)
- [7 Control Drawing](#)
- [8 Close Unit Using Torque Sequence](#)
- [9 Operations Status Lights](#)
- [10 FAQ](#)
- [11 Documents / Resources](#)
  - [11.1 References](#)



**scully61675 Intellicheck3R Onboard Controller**



## Specifications

- **Temperature Range Operating:** -40 to +140 Degrees F (-40 to +60 Degrees C),
- **Storage:** -50 to +185 Degrees F (-45 to +85 Degrees C)
- **Power Requirement Nominal Voltage:** 12 to 24 VDC (-0.5, +8 VDC),
- **Consumption:** 9.6 Watts maximum at 24 VDC, 4.8 Watts maximum at 12 VDC
- **Outside Dimensions:** 9.26" W x 6.81" H x 2.54" D
- **Weight:** 6.5 lb (2.9 kg)

## Product Usage Instructions

### Mechanical Installation

Before beginning installation, ensure tank compartments are drained and vapor-free.

1. Remove Electronics Module from Housing and mount Housing to Truck.
2. Install Cable Glands using Anti-Seize on all threaded fittings.

### Tools Needed for Installation

- Cable Glands (at least 3)
- Wire
- 5/16 or M8 Stainless Screws (4)

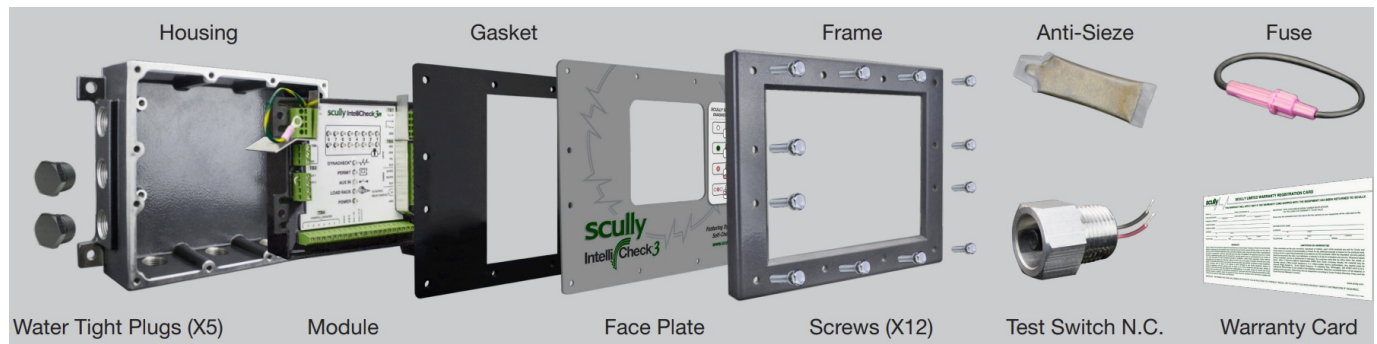
### Parts List

- Housing
- Gasket
- Frame
- Anti-Seize
- Fuse

## Install Power, Sensor, and Socket Wire

Seal conduit against water to prevent failures.

## Parts List



## Separately Purchased Parts



## Tools Needed for Installation



## Specifications and Regulatory

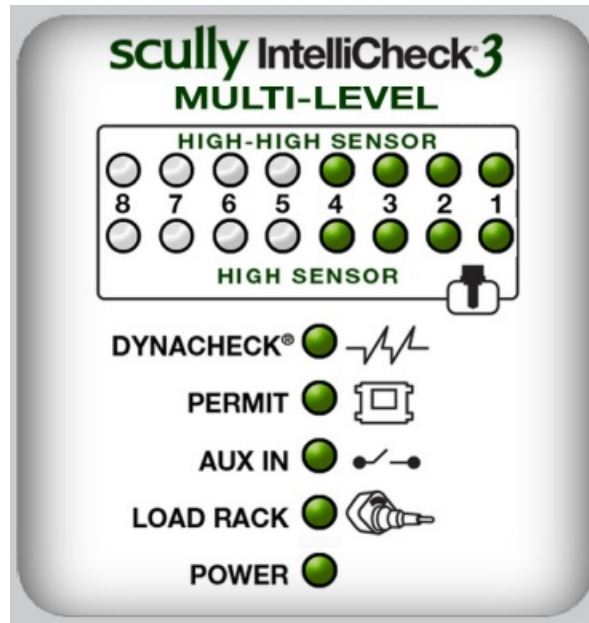
### See Product Label

 LISTED 69126 HAZARDOUS LOCATION CONFORMS TO STDs: UL 61010-1, UL 913, ISA 12.12.01 CSA C22.2 No. 157, No. 213, No. 61010-1 ITS15ATEX58179 IECEX ETL 15.0004 Ex e mb [ia] IIB T4 Gb, IP65 SN XXXXX WK YR 14	<p>ASSOCIATED EQUIPMENT, APPAREILLAGE CONNEXE, Class I, Division 2, Group CD T6, Type 4; Class I, Zone 2, IIB T6, IP65 Outdoor hazardous locations with intrinsically safe outputs to Class I, Division 1, Group CD. Class I; Zone 0, IIB hazardous locations, in accordance with Scully Control drawing 61667. Input 12-24 Vdc, 6 W, Um = 32 Vdc, -40°C ≤ Ta ≤ 60°C</p> <p><b>Warning:</b> Improper connections, component substitution or tampering may impair intrinsic safety and create hazardous conditions. <b>Avertissement:</b> Des connexions mal effectuées, la substitution ou la manipulation des composants peuvent nuire à la Sécurité intrinsèque et créer des conditions dangereuses.</p> <p>Complies with EN/IEC 13922 This device complies with Part 15, Subpart B of the FCC rules.</p>	 Wilmington, MA, USA www.scully.com Featuring Dynamic Self-Checking® 38042 Rev C
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## Temperature Range

- **Operating:** -40 to +140 Degrees F (-40 to +60 Degrees C)
- **Storage:** -50 to +185 Degrees F (-45 to +85 Degrees C)
- **Power Requirement:**
- **Nominal Voltage:** 12 to 24 VDC (-0.5, +8 VDC)
- **Consumption:** 9.6 Watts maximum at 24 VDC 4.8 Watts maximum at 12 VDC

- **Outside Dimensions:** 9.26" Wide X 6.81" High X 2.54" Deep
- **Weight:** 6.5 lb (2.9 kg)
- **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:** Intrinsically safe relay output. 200mA at 32 VDC maximum or 500mA at 16 VDC maximum

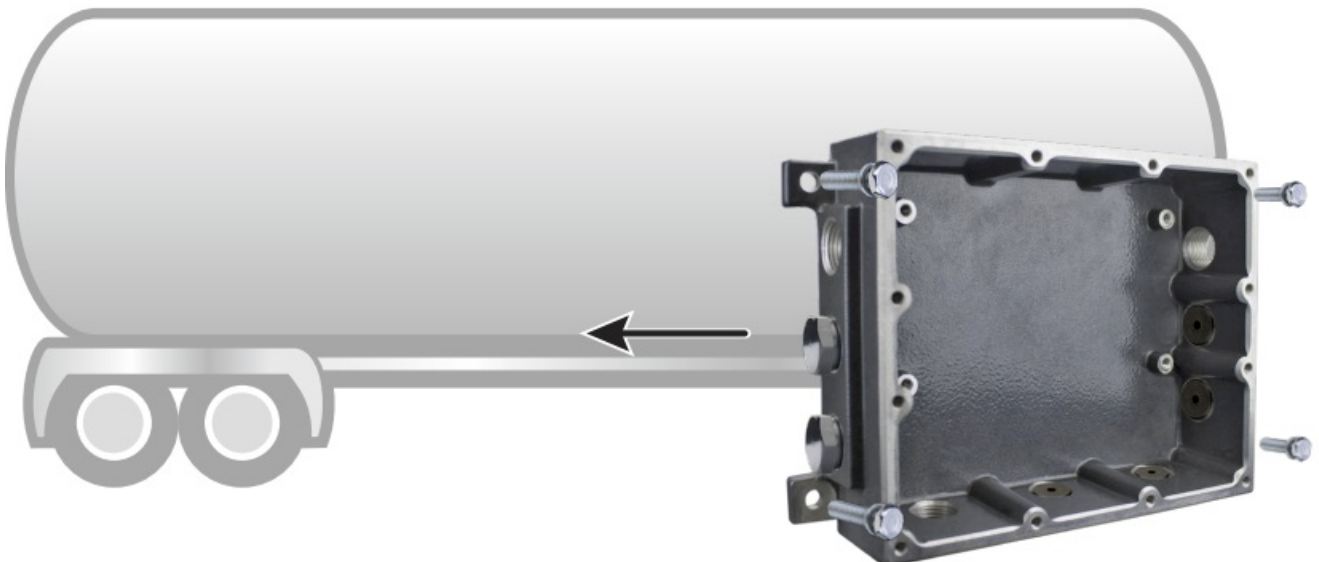


## Mechanical Installation



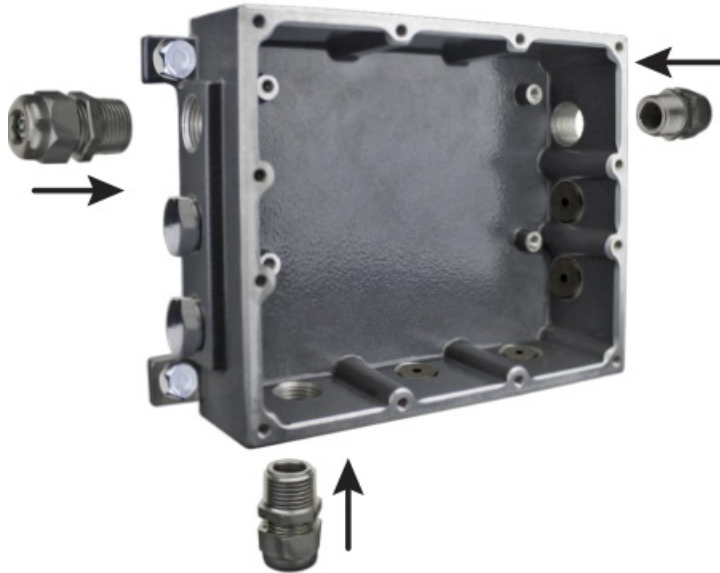
- No drilling or welding to the tank's frame should take place without first consulting the tank manufacturer.
- Before beginning installation, tank compartments must be completely drained of liquid and be vapor-free.

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

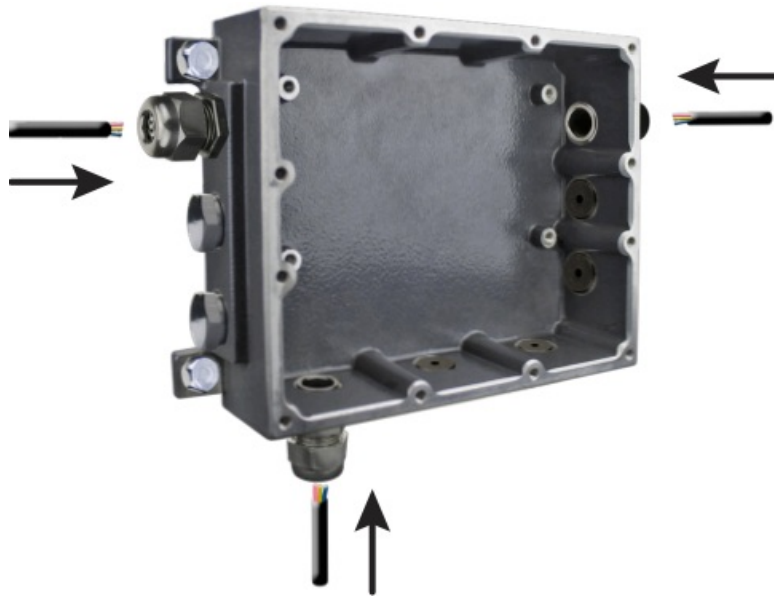


2. Install Cable Glands

- (Use Anti Sieze on all threaded fittings including plugs)

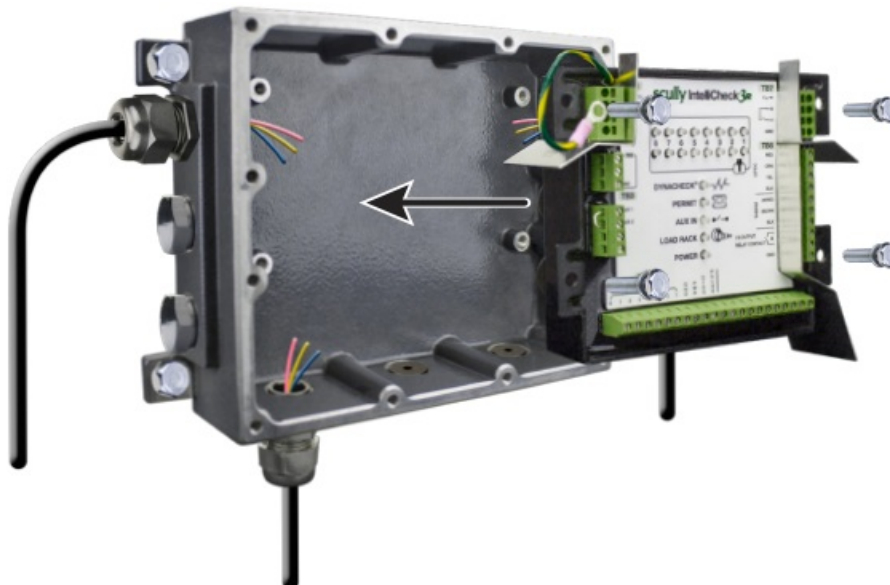


### 3. Install Power, Sensor and Socket Wire



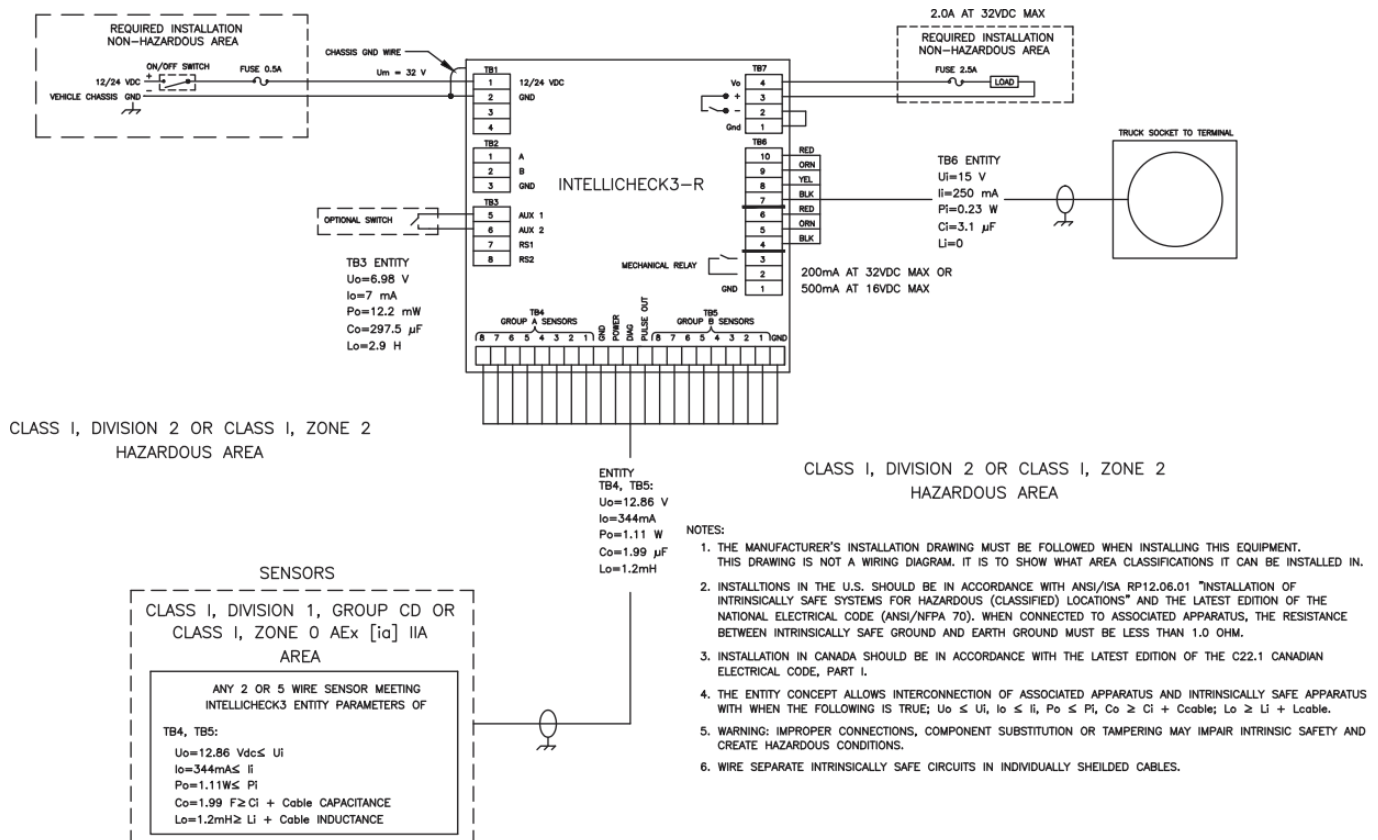
### 4. Install Electronics Module

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



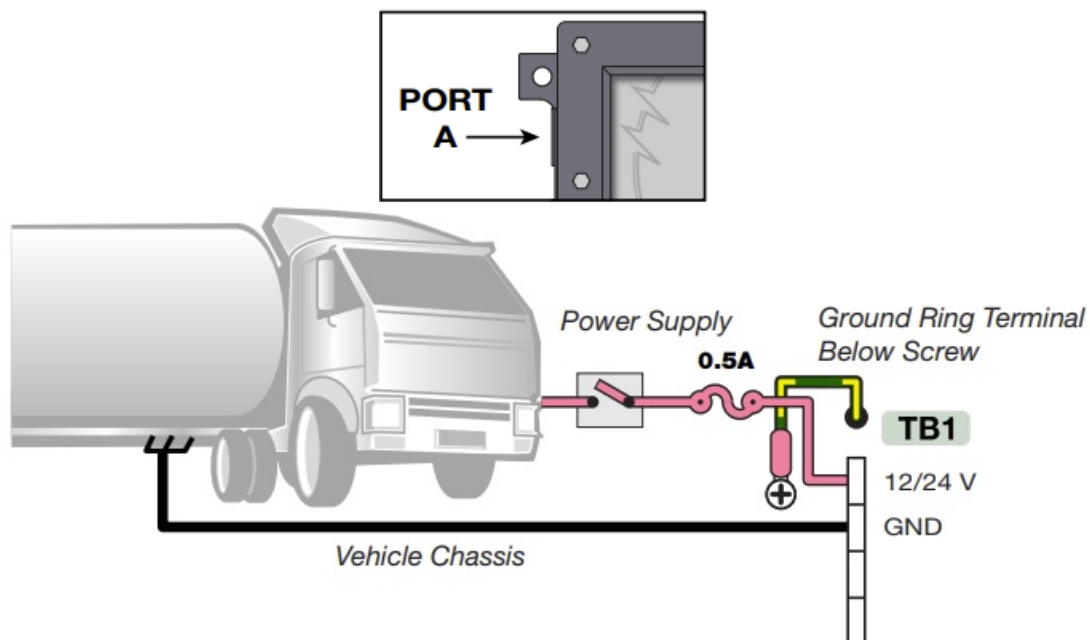
**Control Drawing**





## Electronic Installation

### 1. Wire in Power

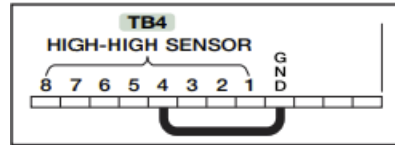


### 2. Program Module

- (Example of 4 Compartment OVP programming)
- **a.** Attach jumpers as shown.
- **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.

- **2-Wire Optic Sensors in Parallel**

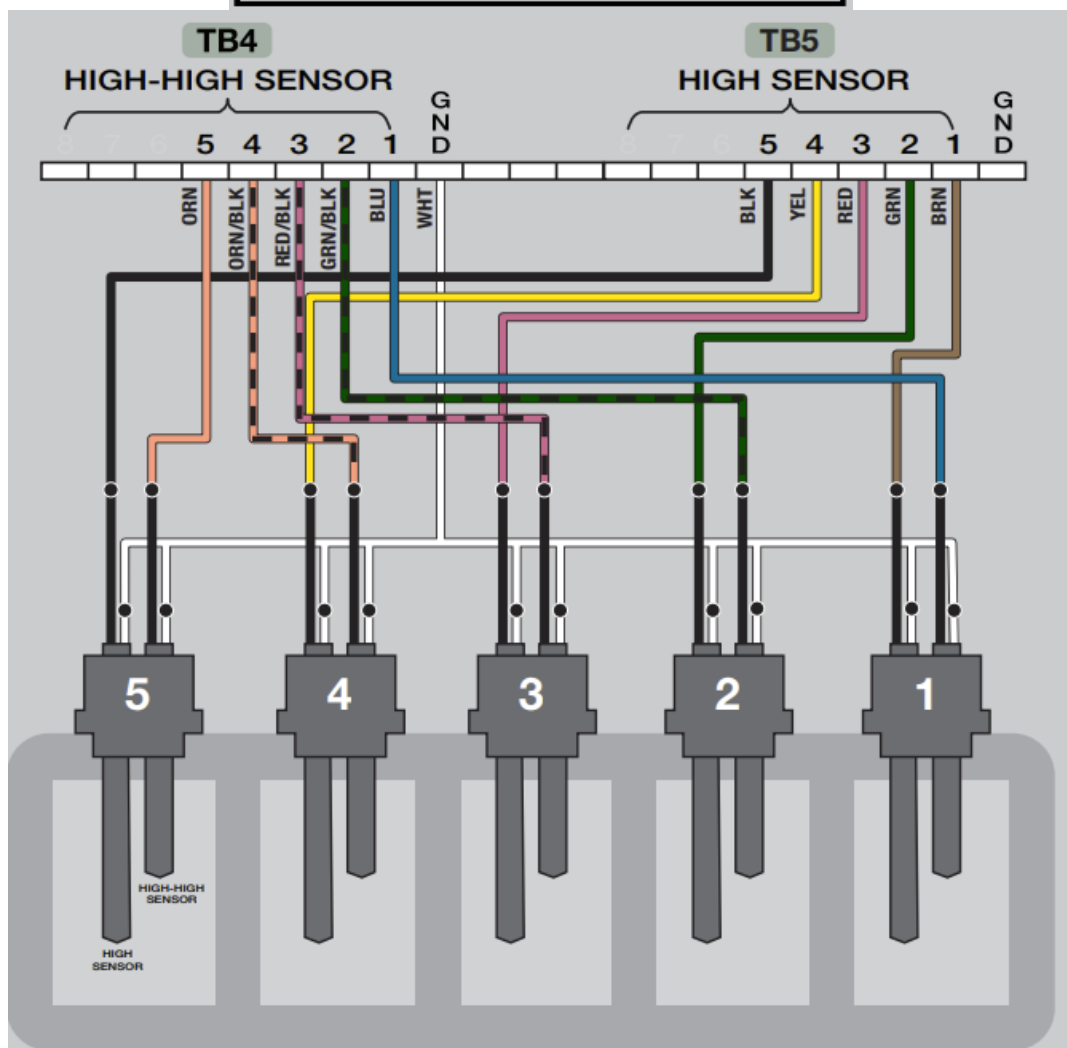
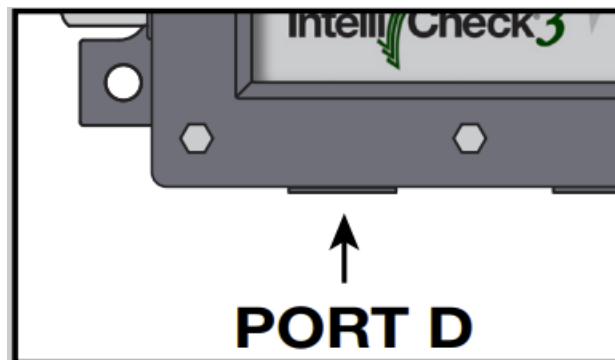


- **Jumper 1:** GND to TB4 Highest Compartment Number
- **Jumper 2:** None



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

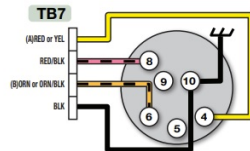
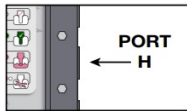
### 3. Wire Sensors



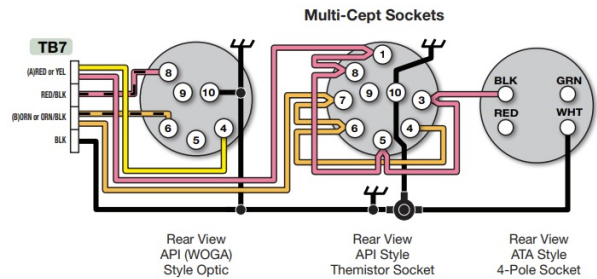
- **Operations for 2-Wire Multi-Level Sensor Lights**







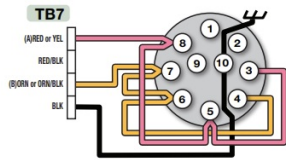
Rear View SJ-6SO or SJ-6W



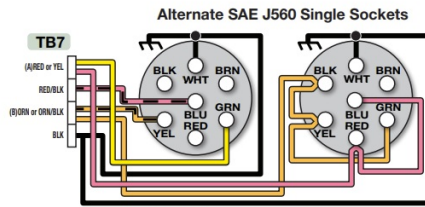
Rear View API (WOGA) Style Optic

Rear View API Style Thermistor Socket

Rear View ATA Style 4-Pole Socket

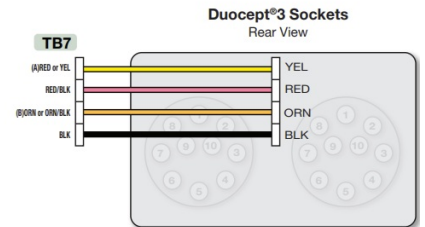


Rear View SJ-6S



Rear View SJ-6X (Scully 7 Pole Socket) 5-Wire

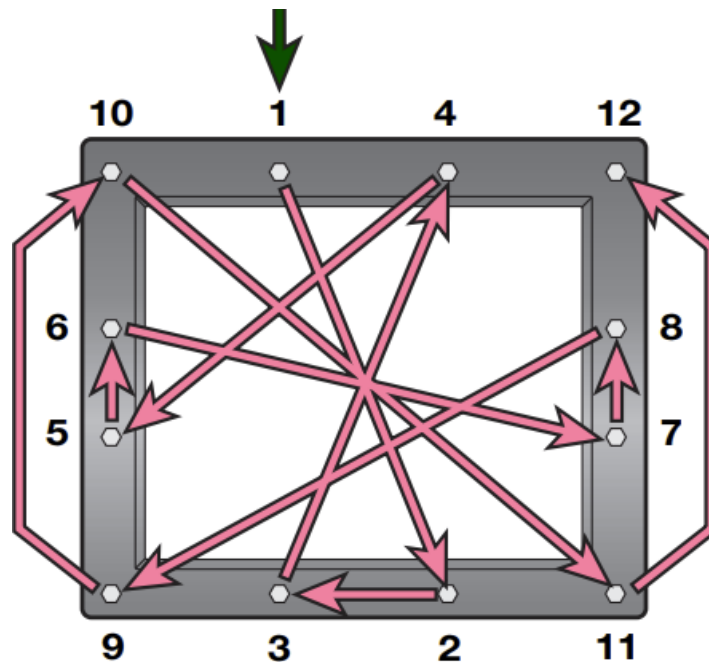
Rear View SJ-6 (Scully 7 Pole Socket) 2-Wire



Duocept®3 Sockets Rear View






## 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 onto 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.



- Do not over tighten.
- Do not use an impact wrench.

## Operations Status Lights

<b>DYNACHECK®</b>		
<b>PERMIT</b>		<i>Permit</i>
<b>AUX IN</b>		<i>Closed</i>
<b>LOAD RACK</b>		<i>Connected</i>
<b>POWER</b>		<i>Power OK</i>

<b>PERMIT</b>		<i>Non-Permit</i>
<b>AUX IN</b>		<i>Open</i>
<b>LOAD RACK</b>		<i>Not Connected</i>
<b>POWER</b>		<i>Power Out of Specification</i>

## Scully Signal Company

- Wilmington, MA 01887, USA
- [www.scully.com](http://www.scully.com)
- For more information and 24 hour technical assistance, call Scully Signal Company at 1- [800-272-8559](tel:800-272-8559) or email [sales@scully.com](mailto:sales@scully.com)
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- **Self-Checking®**
- [www.scully.com](http://www.scully.com)
- 61675\_REV C
- November 2017



## FAQ

- **Q: What are the power requirements for the product?**
  - **A:** The product operates on a nominal voltage of 12 to 24 VDC with a consumption of up to 9.6 Watts at 24 VDC and up to 4.8 Watts at 12 VDC.
- **Q: What is the temperature range for operating and storage?**
  - **A:** The product can operate in temperatures ranging from -40 to +140 Degrees F (-40 to +60 Degrees C) and can be stored in temperatures ranging from -50 to +185 Degrees F (-45 to +85 Degrees C).
- **Q: Where can I get more information or technical assistance?**
  - **A:** For more information and technical assistance, you can contact Scully Signal Company at 18002728559 or email [sales@scully.com](mailto:sales@scully.com).

## Documents / Resources



[scully 61675 Intellicheck3R Onboard Controller](#) [pdf] User Guide  
61675, 61675 Intellicheck3R Onboard Controller, 61675, Intellicheck3R Onboard Controller, On  
board Controller, Controller

## References

- [User Manual](#)

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