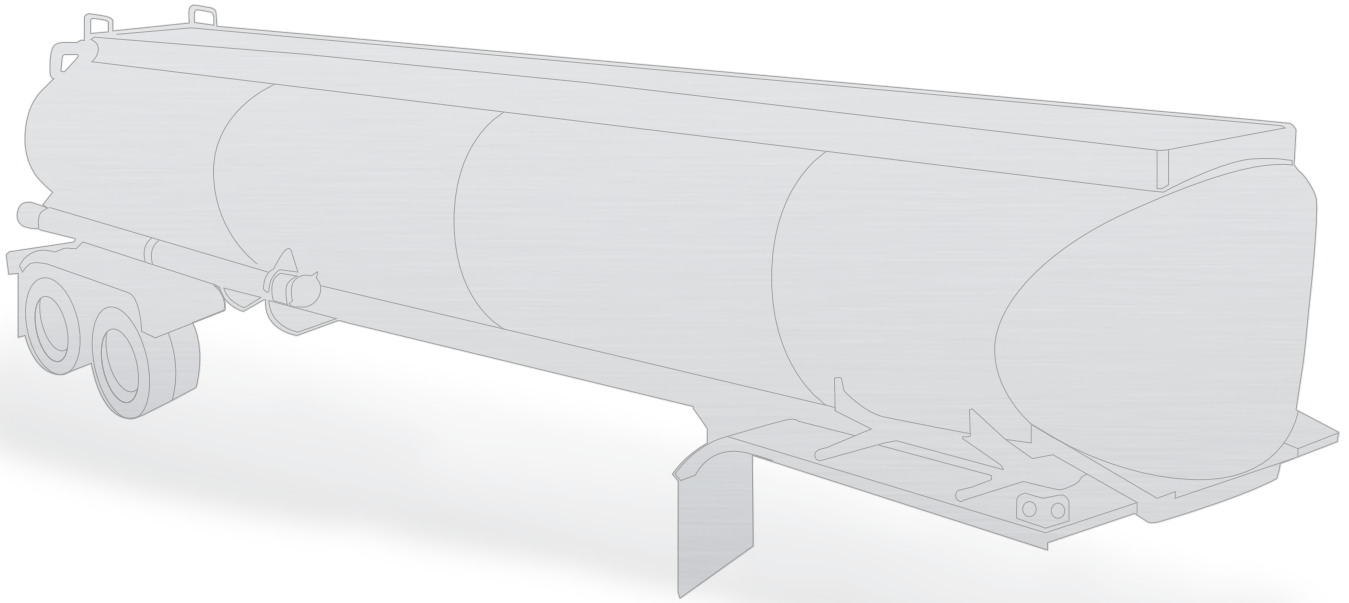


Overfill Prevention, Ground Verification, and Vehicle Identification Systems



Electronic Tank Truck Catalog



Built on Safety, Driven by Innovation



The Scully Difference

Choosing the right equipment supplier can make a significant difference to your operations and your bottom line. Scully is the original brand that pioneered and patented the equipment used today for tank truck overfill prevention, retained product sensing, static ground proving, and vehicle identification. For over 90 years, Scully has been committed to providing you with the best value in the industry through quality, reliability, safety, and service.

Quality You Can Trust

Quality is our passion. We take great pride in designing, building, and servicing products made of the highest quality materials, with the best processes and extensive testing. To ensure this, we are a vertically integrated company with engineering, manufacturing, customer service, and technical service all under one roof so we can maintain the quality levels that you deserve. We are a family company that won't put our name on our products unless they meet our stringent criteria to surpass your expectations.

Reliability You Can Depend On

Our products are built to last. Period. In fact, they often outlast the tanks and vehicles on which they are installed. It's the reason transport companies insist on Scully and won't accept substitutes. You will find products that cost less up-front, but downtime and liabilities become more costly in the long run, increasing the total cost of ownership. Specify Scully for dependable, efficient performance.

Safety To Protect Your Employees And Your Operations

We don't compromise on safety. We design our systems to protect people and the environment from catastrophic spills and explosions. There is no margin for error. That's why we design and test our products to the latest industry standards and incorporate our patented self-checking Dynacheck® circuitry into our overfill prevention products. Our overfill prevention systems have the longest running safety record in the industry. Why compromise on safety?

World Class Service To Keep Your Fleet On The Road

Downtime results in lost profits. We are serious about expert service - helping you install, troubleshoot, and maintain your Scully throughout the lifetime of ownership. Our highly skilled service technicians can assist you on the phone 24/7, and our experienced applications, engineering, field sales, and customer service teams are real people - not AI - who are here to assist you.

Principle Of Overfill Prevention When Specifying Truck Equipment:

Plug: The plug color designates connection interface to truck tank socket.

1. Blue – optic 5-Wire signal with 3 J-slots connection. The blue plug has 6 pins for optic 5-Wire signals.
2. Green – thermistor 2-Wire signal with 2 or 4 J-slots. The green plug has 8 pins (2 J-slots) or 10 pins (4 J-slots) for thermistor 2-Wire signal.
3. Black - this is common in Europe and used in thermistor 2-Wire installs but not typically seen in US terminals.

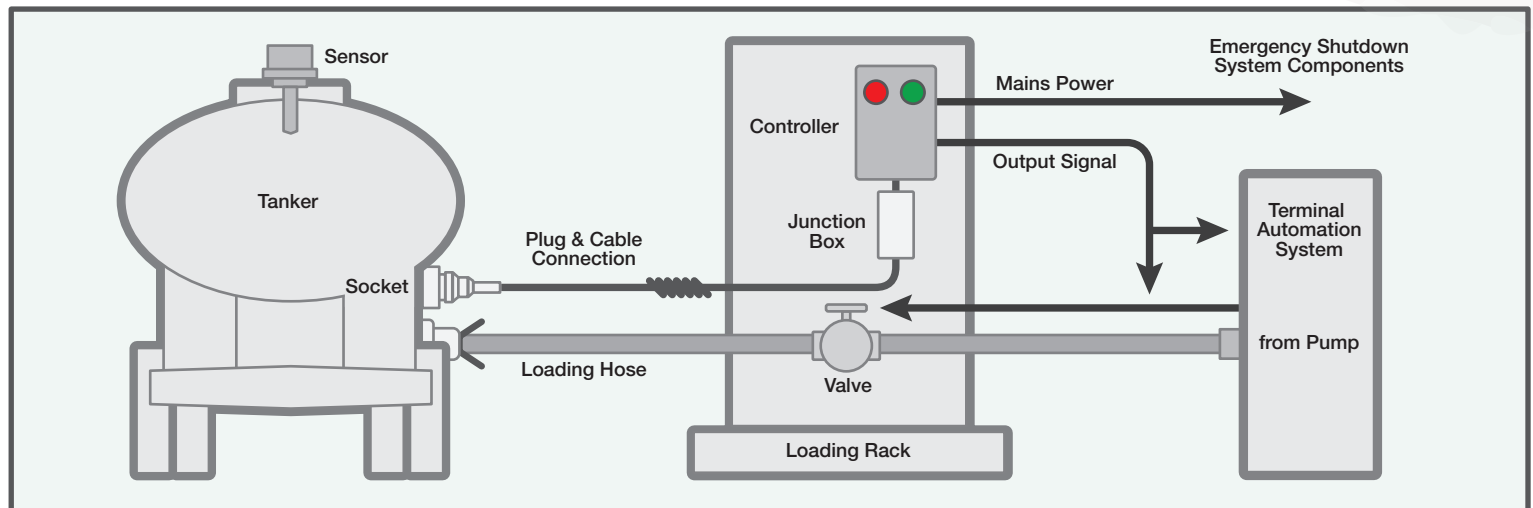
Note that thermistor is an industry term as the sensor technology used can be thermistor or optic.

Controller: A failsafe overfill prevention device at the terminal.

There are typically three types of controllers:

1. A single-point controller that interfaces only to a one compartment trailer (i.e. One overfill 2-Wire sensor)
2. A multi-point controller that interfaces to a 5-Wire sensor trailer (i.e. multiple 5-Wire sensors)
3. An auto-detect multi compartment controller that interfaces with trailers using either 2 or 5-Wire sensors onboard.

Depending on the type of controller, different truck equipment options are available.



General Bottom Loading Configuration

The following is a guide and reflects some of the most common equipment configurations in the liquid transport industry. There are many other possible configurations other than the ones outlined below. Please contact us with any questions regarding your configuration or for unique setups requiring custom equipment, and we can help determine a system that is right for you.

At the Terminal:

Auto-Detect Multi-Compartment Controller

Interfacing The Truck: IF an 8 or 10 Pin Green Plug

Truck Requirements: THEN 10 Pin Green Truck Socket, Dummy Sensors and Ground Bolt, 2-Wire Sensors

Interfacing The Truck: IF a 6 Pin Blue Plug

Truck Requirements: THEN 6 Pin Blue Truck Socket, Ground Bolt, 5-Wire Sensors

Interfacing The Truck: IF a 10 Pin Black Plug

Truck Requirements: THEN 10 Pin Green Truck Socket, Dummy Sensors and Ground Bolt, 2-Wire Sensors or 6 Pin Blue Truck Socket, Ground Bolt, 5-Wire Sensors

At the Terminal:

Multi-Point Controller

Interfacing The Truck: Blue Plug (3 J-Slots)

Truck Requirements: Blue Optic 5-Wire Socket, a 5-Wire Sensor Per Compartment

Optional: IntelliCheck®3 Truck Controller for Onboard Indication

At the Terminal:

Either Auto-Detect or Multi-Point Controller (Guarantees universal compatibility at any terminal)

Interfacing The Truck: Either any Green or Blue Plug

Truck Requirements: DuoCept® Socket and IntelliCheck®3, either 2 or 5-Wire sensors (same in all compartments)

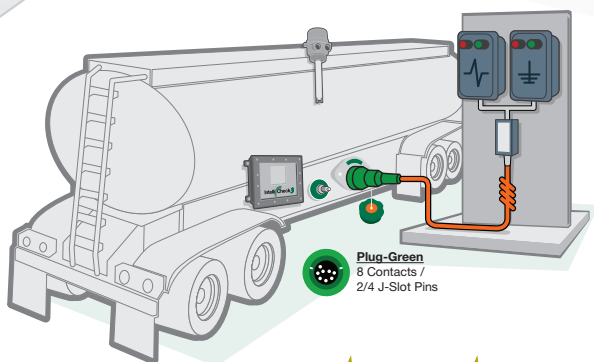
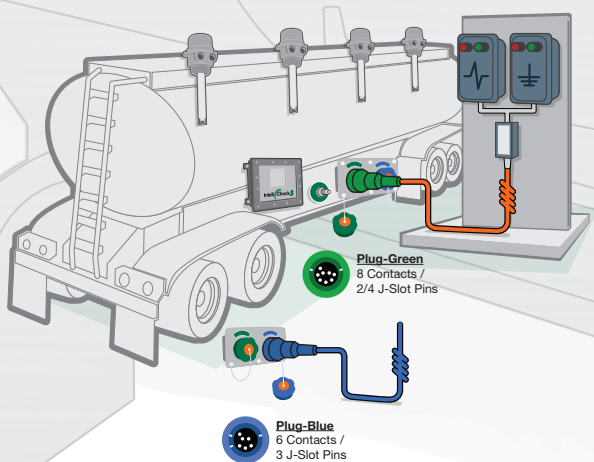
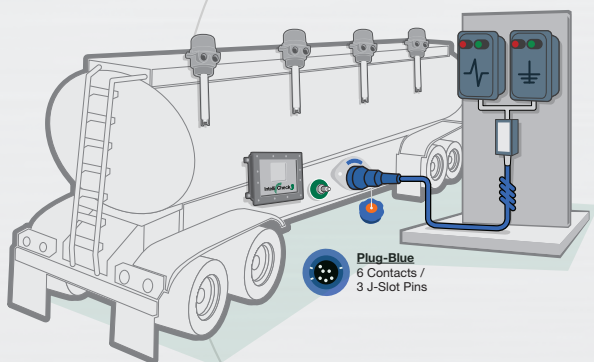
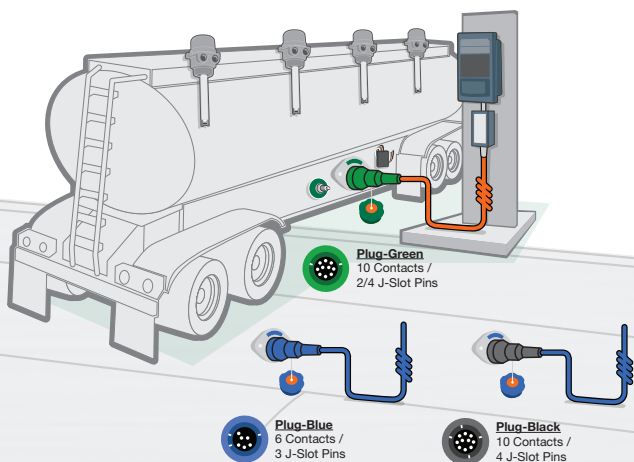
At the Terminal:

Single-Point Controller

Interfacing The Truck: Green Plug (2 or 4 J-Slots)

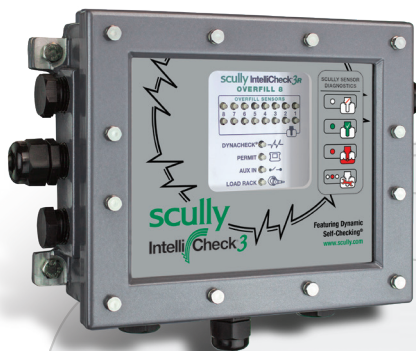
Truck Requirements: Green Thermistor 2-Wire Socket, 2-Wire Overfill Sensor

Optional: IntelliCheck®3 Truck Controller for Onboard Indication



Scully IntelliCheck®3

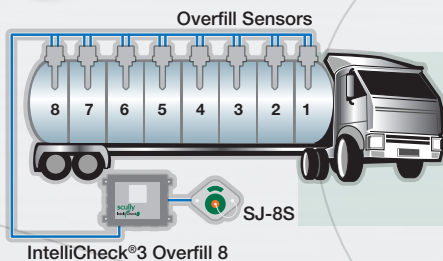
The safest and most advanced tank trailer overfill prevention and retained product monitoring system. Save time and money by reducing down-time and ensuring safe, dependable loading operations.



- Displays overfill prevention, retained product, and fault condition status at the tank vehicle-mounted control unit for safe loading and easier troubleshooting.
- Provides enhanced programming and diagnostics to support quick installation and efficient troubleshooting.
- Features DynaCheck®, automatic and continuous self-checking circuitry, to ensure fail-safe operation.
- Shuts down system outputs and halts loading operations upon detection of a static condition.
- Monitors retained product to help prevent product mixing and requires driver acknowledgment before loading can proceed.



Data Sheet
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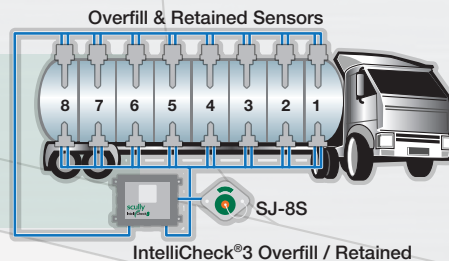


Overfill 8

Overfill 8 Control Monitor	09562
Overfill 8 Replacement Module	09563
IntelliCheck®3-R Upgrade Kit for Overfill 8	09584

Overfill & Retained

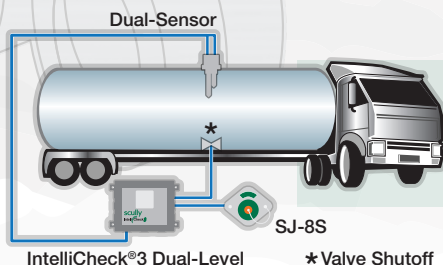
Overfill & Retained Monitor	09566
Overfill & Retained Replacement Module	09567
IntelliCheck®3-R Upgrade Kit for Overfill & Retained	09585



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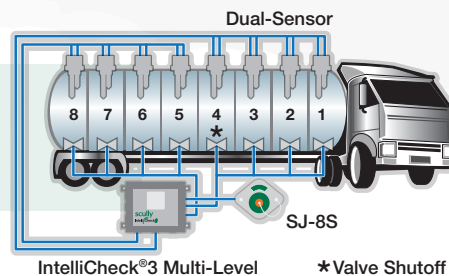


Dual-Level

Dual-Level Level Monitor	09578
Dual-Level Replacement Module	09579

Multi-Level

Multi-Level Level Monitor	09540
Multi-Level Level Monitor with Bypass	09540-BYP



Data Sheet
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Dual-Level Sensors

SP-TO, 7" with NPT Holder	092000234
SP-TO, 12" with NPT Holder	092000235
SP-TO, 15" with NPT Holder	092000236
SP-TO, 7" Replacement Sensor	092000268
SP-TO, 12" Replacement Sensor	092000269
SP-TO, 15" Replacement Sensor	092000270
NPT Replacement Holder	092000275

Scully CONNECT™ Plus Sensors

The Scully Connect™ Plus Sensor is an advanced tool-less overfill prevention sensor that allows for quick, easy, and error-free installation of your overfill prevention system.

- Time saving installation with no wire crimping required.
- No tools required to install, remove, or replace on top of the truck.
- IP69K ingress protection rating.
- External cap levers dual axis assembly.
- Corrosion-resistant aluminum alloy levers.
- Multiple mounting base options.



Data Sheet
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Contact Scully application team to configure a Scully Connect Plus kit. Information required about your tank or trailer include number of compartments, type of sensors (2-Wire versus 5-Wire), distance between man-lids per compartment, and distance between compartment one man-lid and the onboard controller or socket. A kit will be configured to your requirements and quoted for your reference.

2-Wire & 5-Wire Optic Sensors

Scully 2-Wire and 5-Wire Optic sensors are purpose-built for petroleum overfill prevention and point level detection. Dynacheck® provides continuous self-checking circuitry, while Instant-On™ technology delivers an immediate permissive signal. The sensors also allow fast re-permit as product drops below the sensing point. Fully compatible with all Scully thermistor controllers.



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5-Wire Sensor

SP-FU/MHC(MC)

7" Five-Wire Optic Sensor - NPT Holder	09208L1
12" Five-Wire Optic Sensor - NPT Holder	09213L1
15" Five-Wire Optic Sensor - NPT Holder	09216L1

SP-FU/MHCF(MC)

7" Five-Wire Optic Sensor - Flanged Holder	09207L1
12" Five-Wire Optic Sensor - Flanged Holder	09212L1
15" Five-Wire Optic Sensor - Flanged Holder	09215L1

2-Wire Sensor

SP-TO/MHC(MC)

7" Two-Wire Optic Sensor - NPT Holder	09408L1
12" Two-Wire Optic Sensor - NPT Holder	09413L1
15" Two-Wire Optic Sensor - NPT Holder	09416L1

SP-TO/MHCF(MC)

7" Two-Wire Optic Sensor - Flanged Holder	09407L1
12" Two-Wire Optic Sensor - Flanged Holder	09412L1
15" Two-Wire Optic Sensor - Flanged Holder	09415L1



Retained Sensors

The Scully SP-IR retained product sensor detects residual product in the bottom of a tank trailer compartment as part of the Scully IntelliCheck® monitoring system. Installed at the compartment's lowest point using the Scully weld coupling, it detects approximately 3/8"-1/2" of remaining product.

SP-IR-RTND

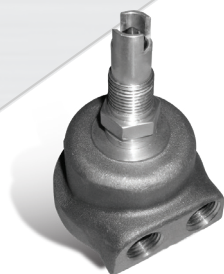
Standard Scully Retain Optic 2-Wire Sensor with 6061-T651 Aluminum Weld Coupling	092000295
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SP-IR-RTND

Standard Scully Retain Optic 2-Wire Sensor with Carbon Steel Weld Coupling	092000293
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SP-IR-RTND

Standard Scully Retain Optic 2-Wire Sensor with 6061-T651 Aluminum Weld Coupling Extra Length	092000299
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Data Sheet
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Sockets

Scully sockets are part of a complete vehicle mounted overfill prevention and grounding system. Consider the plug style at the loading terminals your vehicles load at to ensure a compatible connection.

These truck-mounted sockets connect to the Scully IntelliCheck®, Load Anywhere® onboard monitor, and/or Scully sensors, and the terminal loading rack overfill monitor via the terminal plug.



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Single Sockets

SJ-6W Optic Socket, WOGA Pattern, API Optic Standard	07974
SJ-6SO Optic Socket, Scully Pattern	07973
SJ-6X Optic Socket, SAE J560 Pattern	08199
SJ-8S Thermistor Socket, API Thermistor Standard	07716
SJ-6S Thermistor Socket, API Thermistor Standard	07720
SJ-6 Thermistor Socket, SAE J560 Pattern	07681
SJ-4D Pole Pattern Socket	07707
SJ-4R 4 Pin Truck/Rack with Box	07644
SD-5E Five Element Electronic Dummy	08542



DuoCept®

DuoCept W/B, WOGA Optic and Scully Thermistor Interface Connectors **09060**

DuoCept W/B, with T.I.M.®, WOGA Optic and Scully Thermistor Interface Connectors **09061**

Super T.I.M.®

The Scully Truck Identification Module® (Super T.I.M.®) provides a unique serial number to the Intellitrol® Vehicle Identification Prover® (V.I.P.®) system control unit feature of the Intellitrol®, allowing the truck to communicate with the terminal during loading. The system is used in conjunction with your Scully tank overfill prevention and vehicle static grounding controls.



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Truck Identification Module® (T.I.M.®) **08836**



Grounding

If you load at terminals where the Scully Groundhog is incorporated with the existing Scully overfill prevention system, you need a Scully ground bolt on your vehicle. The bolt is mounted directly to the vehicle frame and wired to the existing truck-mounted Scully socket(s). This allows you to perform only one connection for overfill and ground verification.



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Ground Ball	08274
Ground Bolt	08560
Ground Bolt with M20 Cable Gland	09011

Mobile Truck Tester

The HazLoc-approved Scully Mobile Truck Tester (MTT) is a self-contained solution to verify and troubleshoot tank truck overfill sensors, grounding, and truck identification. Compatible with Scully IntelliCheck®, Load Anywhere®, Optic 2-Wire and 5-Wire Sensors, and T.I.M.® Certified to IEC and NEC hazardous area regulations.

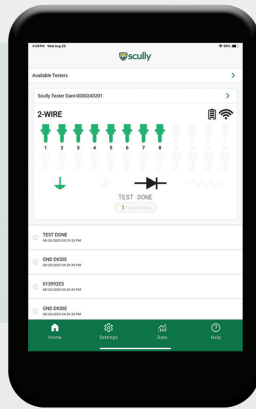


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- **Hazardous Area** approved case and tester.
- **Comprehensive Testing** for overfill, ground verification, and truck identification.
- **Versatile Application** that is ideal for fleets, repair shops, and terminal managers.
- **Single Sensor Test** with the socket adaptor and wire harness.
- **Ergonomic Design** that is small but rugged, light weight, and easy to handle.
- **Mobile Phone App Pairing** for single-person testing and detailed test reports.

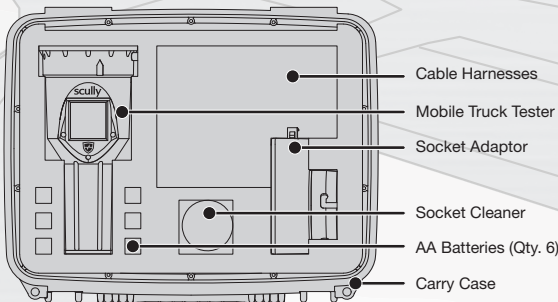
User Interface

The same view on the tester itself or the mobile app allows you to verify overfill sensor status, grounding, and truck ID.



Mobile App Reporting

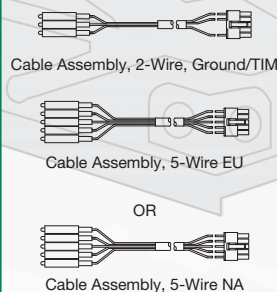
Share and archive test results to accurately identify issues. Filter results by truck ID, customer, or work order.



Cable Harnesses
Mobile Truck Tester
Socket Adaptor
Socket Cleaner
AA Batteries (Qty. 6)
Carry Case

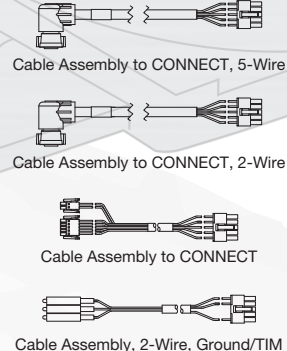
(OS) STANDARD OPTICAL SENSOR KIT

Includes Two (2) Harnesses for 2 and 5-Wire Sensors (NA & EU).



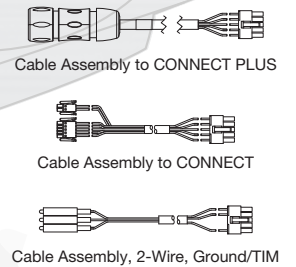
(SC) SCULLY CONNECT KIT

Includes Four (4) Harnesses for 2 and 5-Wire CONNECT® Cap, and Direct Sensor.



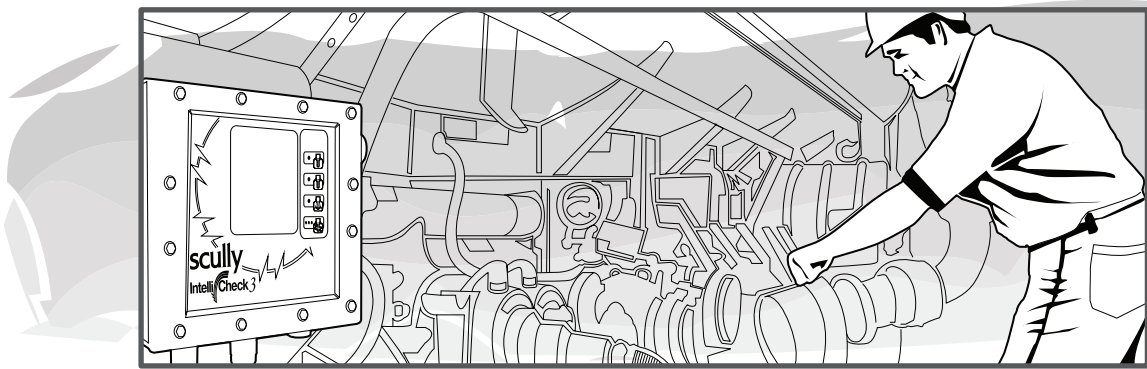
(CP) SCULLY CONNECT PLUS KIT

Includes Three (3) Harnesses for 2 and 5-Wire CONNECT® PLUS Cap, and Direct Sensor.



MTT 1000 A-HA- OS Tester KIT with Standard Optical Sensor Accessories	092005121
MTT 1000 A-HA- SC Tester KIT with Scully CONNECT™ Accessories	092005122
MTT 1000 A-HA- CP Tester KIT with Scully CONNECT™ Plus Accessories	092005123
MTT 1000 A-HA- UL Tester KIT with Three Accessories Listed Above	092005124
MTT 1000 A-HA- HC Tester Only in Hard Case	092005125

Setting Standards in Safety & Dependability Since 1936



For 90 years Scully has been engineering and building products
to the highest safety and reliability standards.

We have direct sales and service personnel in North America,
South America, Europe, the United Kingdom, Malaysia, and India,
and are represented in over 50 countries.



Built on Safety, Driven by Innovation



Scully Signal Company • 800.272.8559 • sales@scully.com • www.scully.com

Scully NA eTruck Catalog
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