

IntelliCheck²

Part of a Total Scully Dynamic Fallsafe Sensing System



IntelliCheck²

IntelliCheck² is our latest design for vehicle overfill prevention. It continues to feature the ultimate in safety, dependability and reliability.

Featuring Dynacheck[®]—

Scully's automatic and continuous self-checking design that monitors not only the IntelliCheck 2 system, but each integral part of the system for proper operation.

New Features Include:

- Improved state-of-the-art electronic design
- Epoxy finished corrosion resistant housing
- Durable road spray & scratch resistant window
- Easy to read indicator diagnostics
- Interchangeable with IntelliCheck

IntelliCheck² is a state of the art point level detection system that provides:

- Overfill prevention and retained product monitoring in one compact enclosure.
- Operation with existing Scully two-wire optic or five-wire optic sensors.
- Complete visual and diagnostic display of overfill sensors' status.
- Monitoring of up to 8 compartments.
- Complete compatibility with all Scully loading rack overfill prevention equipment.
- Easy installation with step by step instructions.
- Full diagnostic information on all sensor conditions and system functions shown and explained on the monitor cover.
- The best technical service in the industry, with 24-hour toll-free trouble-shooting and technical assistance.

FEATURES

Overfill prevention

- High level detection in each vehicle compartment using either Scully SP-TO or SP-FU sensors.
- System shutdown within one-half second of high level detection.

Dynacheck[®] Safety

- Complete automatic and continuous checking of all system components for static operation.
- Upon detection of a static condition, the IntelliCheck² system shuts down its outputs and ceases loading operation.

Complete System Diagnostics

- Visual indication of IntelliCheck² Dynacheck operation.
- Indicator for Auxiliary switch operation such as vapor interlock.
- Red sensor indicators for static conditions such as "wet" sensor or operational faults.
- Loading rack connection indicators.

Retained Product Monitoring

- Retained product detection using two-wire optic sensors.
- Loading "Lock-out" feature if vehicle returns with product.
- Driver must acknowledge the presence of retained product for loading to take place.
- Helps prevent product mixing.
- Warns against overfilling of vehicle compartments.

Advanced Optic Sensing

- Scully optic sensors are used as the "eyes" of the Intellicheck² to determine loading status.
- Each sensor is independently monitored and tested up to 30 times per second.
- Instant response to high level detection.

DISCLAIMER

The optimum safety system, taking full advantage of the exclusive Dynacheck feature and the FM approval, should be the IntelliCheck² System connected to any truck terminal loading rack equipped with a Scully Loading Rack Monitor. Other manufacturers provide truck terminal loading rack equipment and tank truck systems which claim they are "interchangeable" and fully compatible with Scully equipment. Although these systems may allow you to load your trucks, they do not necessarily provide automatic and continuous self-checking of the system and equipment. Although we have designed our systems for maximum compatibility, SCULLY CANNOT GUARANTEE THE SAFETY OF OUR SYSTEM WHEN IT IS USED IN CONJUNCTION WITH AN OVERFILL PREVENTION SYSTEM FROM ANOTHER MANUFACTURER. We stress that for maximum safety the total system should consist of Scully rack equipment connected to Scully truck equipment. Any system that is not as such may violate Scully's warranty and the conditions of the FM approval.



TECHNICAL SPECIFICATIONS

Overfill Sensor or Retained Sensor Indicators:

The red overfill sensor or retained sensor indicator light conditions are as follows:

Red Light Off — sensor is operating normally. Condition exists when the green permit indicator is on and the Dynacheck indicator is flashing.

Red Light On (not flashing) — the sensor is immersed in product. Condition exists when the green permit indicator is off and the Dynacheck indicator is flashing. This situation could also indicate a faulty sensor.

Red Light is Flashing Slowly (as compared to the Dynacheck indicator) — the sensor return line connection is open. Condition exists when the green permit indicator is off and the Dynacheck indicator is flashing.

Red Light is Flashing at Medium Speed (equal to the Dynacheck indicator) — the sensor circuitry is faulty. Condition exists when the green permit indicator is off & the Dynacheck indicator flashing.

Red Light is Flashing Fast (as compared to the Dynacheck indicator) — the sensor return line is shorted to ground or is shorted to another return line. Condition exists when the green permit indicator is off and the Dynacheck indicator is flashing.

Permit:

When this green indicator is on and all red sensor indicators are off, the IntelliCheck2 System is ready to receive input from the loading rack terminal equipment.

Dynacheck:

When this green indicator is pulsing, the IntelliCheck2 module is functioning properly. Should the module indicate a faulty sensor, the Dynacheck indicator will continue to pulse and this signal is used as a reference for the sensor indicators to determine the fault mode.

Aux In:

This red indicator gives status of ancillary switches or connections made to the IntelliCheck2 System to satisfy loading operation requirements, i.e. vapor interlock switches, brake interlock, etc.

Rack A:

This red indicator gives status of connection to optic or thermistor terminal loading rack controllers. The red indicator is off when connected to optic rack controllers indicating optic signal reception. The red indicator is off when connected to a thermistor rack controller indicating thermistor signal reception.

Rack B:

This red indicator gives status of connection to optic or thermistor loading rack controllers. The red indicator is off when connected to optic rack controllers indicating optic signal output. The red indicator is off when connected to a thermistor rack controller indicating thermistor signal reception.

Temperature Range:

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

Wiring Entry Holes:

1/2 NPT for FM/CSA models

Input Voltage:

11 - 28 VDC

Sensor Inputs:

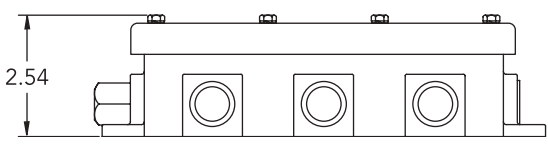
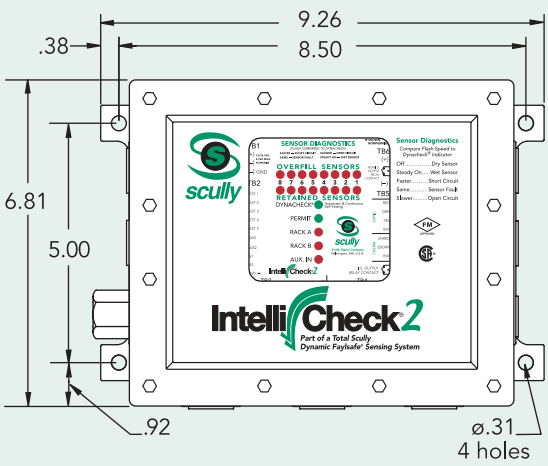
Overfill: Scully two-wire optic sensors (SP-TO) or Scully five-wire optic sensors (SP-FU)
Retained: Scully two-wire optic sensors (SP-IR)

Response Time:

Less than half a second maximum after detection of wet sensor or fault condition.

Weight:

6.5 lbs. (2.9 kg.)



ORDERING INFORMATION

Overfill and Retained Kit		with 7" Standard Sensor	with 12" Extended Sensor
# of Compartments	Cable Type/Cable Length	Part #	Part #
1	7 Cond./200 ft.	08361	08971
2	7 Cond./200 ft.	08362	08972
3	7 Cond./200 ft.	08363	08973
4	7 Cond./200 ft.	08364	08974
5	7 Cond./200 ft.	08365	08975
6	7 Cond./200 ft.	08366	08976
7	11 Cond./200 ft.	08382	08977
8	11 Cond./200 ft.	08383	08978

Overfill Only Kit		with 7" Standard Sensor	with 12" Extended Sensor
# of Compartments	Cable Type/Cable Length	Part #	Part #
1	7 Cond./100 ft.	08251	08961
2	7 Cond./100 ft.	08352	08962
3	7 Cond./100 ft.	08353	08963
4	7 Cond./100 ft.	08354	08964
5	7 Cond./100 ft.	08355	08965
6	7 Cond./100 ft.	08356	08966
7	11 Cond./100 ft.	08380	08967
8	11 Cond./100 ft.	08381	08968

Control Units Only		Part #
Description		
IntelliCheck®2 Overfill Monitor		09109
IntelliCheck®2 Overfill and Retained Monitor		09107

Replacement Parts		Part #
Description		
IntelliCheck2, Overfill Only Replacement Module		09111
IntelliCheck2, Overfill and Retained Replacement Module		09110
IntelliCheck2, Cover Gasket		31789
IntelliCheck2, 1/2 amp fuse		26310
IntelliCheck2, Replacement Cover Assembly		09132
IntelliCheck2, Replacement Retain Acknowledge Switch		31820
IntelliCheck2, Fuse and Holder Assembly		31616

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ISO
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