IntelliCheck®2

Complete Overfill Prevention and Retained Product Monitoring System

scully | setting new standards in safety | MAXSAFETY® | S A F E T Y
Dynamic Self Checking®

Featuring Dynacheck® – Automatic and Continuous Self-Checking Circuitry

IntelliCheck®2

DESCRIPTION

IntelliCheck®2 is our latest design for vehicle overfill prevention.
It continues to feature the ultimate in safety, dependability and reliability.

Features 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.
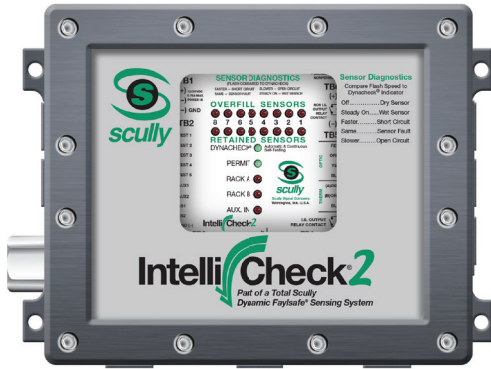
FEATURES AND BENEFITS

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.

Complete System Diagnostics:
-Visual indication of IntelliCheck®2 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.
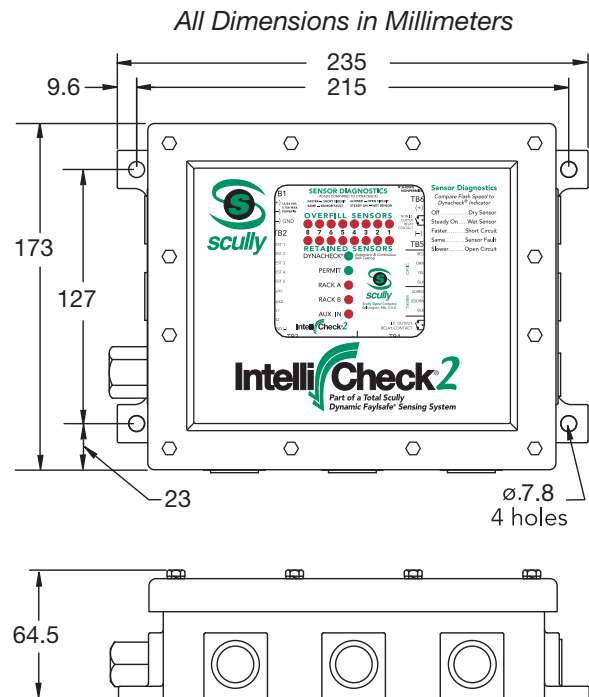
Retained Product Monitoring *(optional)***:**
-Retained product detection using two-wire optic sensors.
-Loading "Lock-out" feature if vehicle returns with product
-Driver must acknowledge the presence of retained product for loading to take place.
-Helps prevent product mixing.
-Warns against overfilling of vehicle compartments.

Advanced Optic Sensing:
-Scully optic sensors are used as the "eyes" of the Intellicheck®2 to determine loading status.
-Each sensor is independently monitored and tested up to 30 times per second.
-Instant response to high level detection.

Dynacheck® Safety:
-Complete automatic and continuous checking of all system components for static operation.
-Upon detection of a static condition, the IntelliCheck®2 system shuts down its outputs and ceases loading operation.

All Dimensions in Millimeters

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SYSTEMS

Complete Overfill Prevention and Retained Product Monitoring System

OVERFILL SENSOR OR RETAINED SENSOR INDICATORS

-**Red Light Off** — the 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 IntelliCheck®2 System is ready to receive input from the loading rack terminal equipment.

DYNACHECK

When this green indicator is pulsing, the IntelliCheck®2 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 IntelliCheck®2 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 rackcontrollers 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.

Operating Temperature Range:	-40° to +60° C (-40° to +140° F)
Storage Temperature Range:	-45° to +85° C (-50° to +185° F)
Wiring Entry Holes:	M20 X 1.5 for ATEX 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:	2.9 kg. (6.5 lbs.)
Approvals:	EEx e m ia IIA T3 (-40°C ≤ Ta ≤ 60°C) BAS01ATEX2405 Enclosure: IP65

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ORDERING INFORMATION

Description	Part Number
IntelliCheck®2 Overfill and Retained Monitor	09115
IntelliCheck®2 Overfill Monitor	09116

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SYSTEMS

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Dynamic Self-Testing® Overfill Prevention Systems