



# ST-35C

Multiple Point Optic Sensing Overfill Prevention Controller

Featuring Dynacheck® – Automatic and Continuous Self-Checking Circuitry

## DESCRIPTION

The Scully overfill prevention system interfaces with optic sensors. It is typically used for bottom and top-loading of tank vehicles. It is mounted at the loading rack/gantry and connects to the vehicle via the Scully plug and cable assembly. The attached plug and 9.14 meters (30') cable connect to the vehicle mounted receptacle, or socket, which is wired to the truck sensor. Please consult Scully for alternate plug and socket styles to prevent mixing AV gas and jet fuels in dedicated refuelers.

The ST-35 system provides the vehicle with an adequate static ground path to the rack/gantry provided the vehicle's overfill equipment is wired and maintained to factory specifications. For additional ground/earth verification options, consult Scully for information on the Groundhog Self-Proving Grounding System.

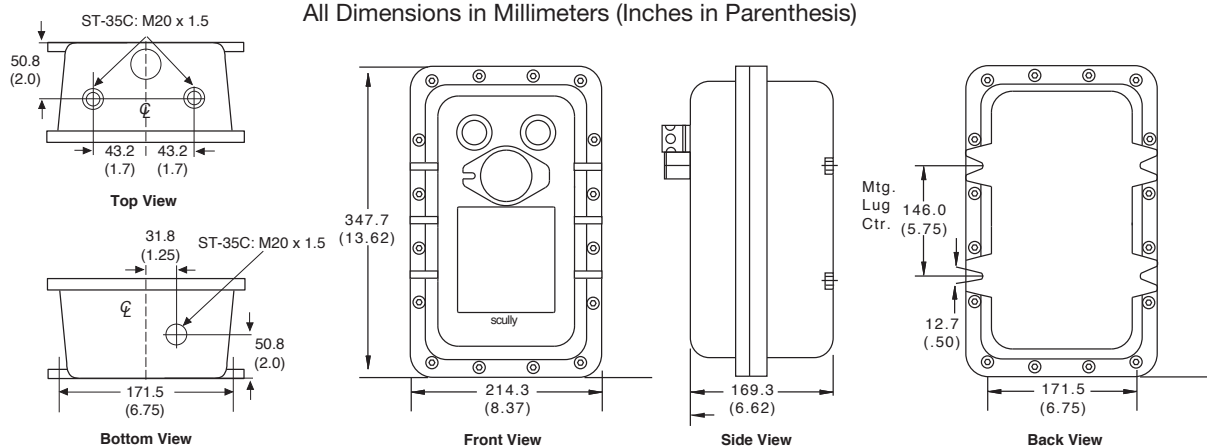
## FEATURES AND BENEFITS

- Maximum safety with Dynacheck® automatic and continuous self-checking circuitry.
- Will not permit loading under any fault or wet sensor condition.
- Signals for automatic shut off of product flow within a half-second of detecting a potential overfill condition.
- Easy connection to vehicles with rugged, versatile plug and cable units.
- Complete compatibility with Scully IntelliCheck® and Load Anywhere® onboard systems and independent five-wire optic sensors.
- ST-35 models monitor 1 – 8 compartment tank vehicles while the ST-35C models monitor 1 – 12 compartment tank vehicles.
- Approved by FM, CSA and ATEX.



ST-35C

Technical Diagram of Model ST-35C ELK  
All Dimensions in Millimeters (Inches in Parenthesis)



# Multiple Point Optic Sensing Overfill Prevention Controller

## TECHNICAL SPECIFICATIONS

<b>Temperature Range:</b>	-40° to +60° C (-40° to +140° F)
<b>Weight:</b>	12.7 kgs. (28 lbs.)
<b>Response Time:</b>	0.5 seconds maximum
<b>Approvals:</b>	ATEX For use in EExd IIB T6, EEx ia IIB T6 hazardous locations. Consult Scully for additional approvals.
<b>Power Requirements:</b>	100–130 VAC, 50/60 Hz, 20 W max. 200–250 VAC, 50/60 Hz, 20 W max.
<b>Connections:</b>	Provided by internal terminal strips.

<b>Output Relay:</b>	One normally open volt-free contact, rated 250 VAC 5A resistive. Energized when the sensors are dry.
<b>Output Control Fuse:</b>	Internal 5 Ampere
<b>Housing Options:</b>	Consult Scully for optional epoxy painted housings for corrosive atmospheres.



II 2(1)G

**NOTE:** For maximum safety, use only in conjunction with sensors manufactured by Scully to not jeopardize the conditions of these approvals.

## ORDERING INFORMATION

Description	Part Number
ST-35C-240-ELK Multi-Point Optic Controller	08621
ST-35C-240-EL Multi-Point Optic Controller	08623
SC-6W Sculcon Junction Box Kit, Blue 6-Pin Plug, Blue Coil Cable, 30'	08159NV
SC-8BO Sculcon Junction Box Kit, Blue 10-Pin Plug, Orange Coil Cable, 30'	08768NV

## REPLACEMENT PARTS

Module Assembly, ST-35C-240 Multi-Point Optic Controller	08647
Fuse, 1A, Main Fuse	26343
Fuse, 5A, Relay Contact Fuse	26350
Replacement Light, Explosion-proof, Green, LED Style, 240V	09420
Replacement Light, Explosion-proof, Red, LED Style, 240V	09421
Bulb, 6W, 240V	27065
Lock Box Replacement Parts, ST-15/ST-35	08360
Bypass Switch Operator, 3 Position	26055

Copyright © 2013 Scully Signal Company. Dynacheck, Dynamic Self-Checking, Dynamic Self-Test, Faylsafe, IntelliCheck, Intellitrol, Intelliview, Load Anywhere, Maxsafety, Sculcon, and V.I.P. are registered trademarks of Scully Signal Company. All Rights Reserved.  
Specifications are subject to change without notice.

67253 Rev B  
October 2013



Dynamic Self-Testing® Overfill Prevention Systems

