



# ST-35C

Multiple Point Optic Sensing Overfill Prevention Controller

Featuring Dynacheck® – Automatic and Continuous Self-Checking Circuitry

## DESCRIPTION

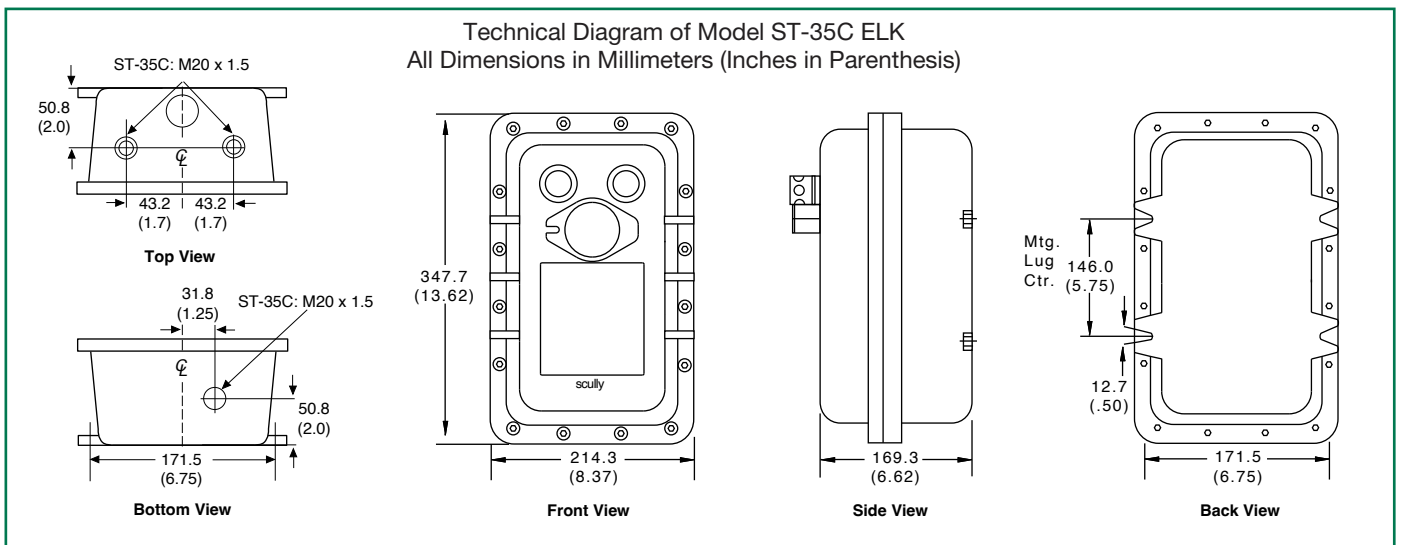
The ST-35C is for use with Scully 5-Wire Optic Sensors, Model SP-FU series. It can monitor up to twelve of these sensors in a “series” signal path. If any one of the connected sensors senses liquid, the ST-35C will respond to this “wet” condition; output relay contact opens and red light turns on. Although its typical application is monitoring of sensors mounted on multi-compartment vehicles, it can also be used for high level detection in storage tanks (tank farms). One relay output contact is provided, which opens if any sensor detects liquid. ST-35C is also used with vehicles equipped with Scully’s IntelliCheck® series or Load Anywhere® Overfill Prevention Monitors. It interfaces with 5-Wire optic socket(s) on these vehicles. The Control Unit has an explosion proof enclosure for mounting in locations that are classified as hazardous. For additional ground proving options, the system works in conjunction with the Scully Groundhog Self-Proving Earthing Verification System.



ST-35C

## 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.
- The ST-35C models monitor 1 – 12 compartment tank vehicles.
- ATEX Approved.



# Multiple Point Optic Sensing Overfill Prevention Controller

## TECHNICAL SPECIFICATIONS

**Temperature Range:** -40° to +60° C (-40° to +140° F).  
**Weight:** 12.7 kgs. (28 lbs.).  
**Response Time:** Less than 1 second.  
**Approvals:** Ex db [ia Ga] mb IIB T5 Gb  
 (Tamb -40°C to +60°C).  
**Power Requirements:** ST-35-240 Models: 200-250 VAC,  
 50/60 Hz. 20 Watts maximum.  
 ST-35-120 Models: 100-130 VAC,  
 50/60 Hz. 20 Watts maximum.  
**Connections:** Provided by internal terminal  
 strips.

**Output Relay:** One normally open volt-free  
 contact, rated 250 VAC, 5A  
 resistive.  
**Output Control Fuse:** Internal 5A.  
**Housing Options:** Consult Scully for optional epoxy  
 painted housings for corrosive  
 atmospheres.



**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
ST-35C-120-ELK Multi-Point Optic Controller	08807
ST-35C-120-EL Multi-Point Optic Controller	08811

## REPLACEMENT PARTS

Module Assembly, ST-35C-240 Multi-Point Optic Controller	08647
Module Assembly, ST-35C-120 Multi-Point Optic Controller	08808
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-15C/ST-35C	08360
Bypass Switch Operator, 3 Position	26055

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Dynamic Self-Testing® Overfill Prevention Systems

