



# ST-15

## Single Point Overfill Prevention Controller

Featuring Dynacheck® – Automatic and Continuous Self-Checking Circuitry



ST-15



### DESCRIPTION

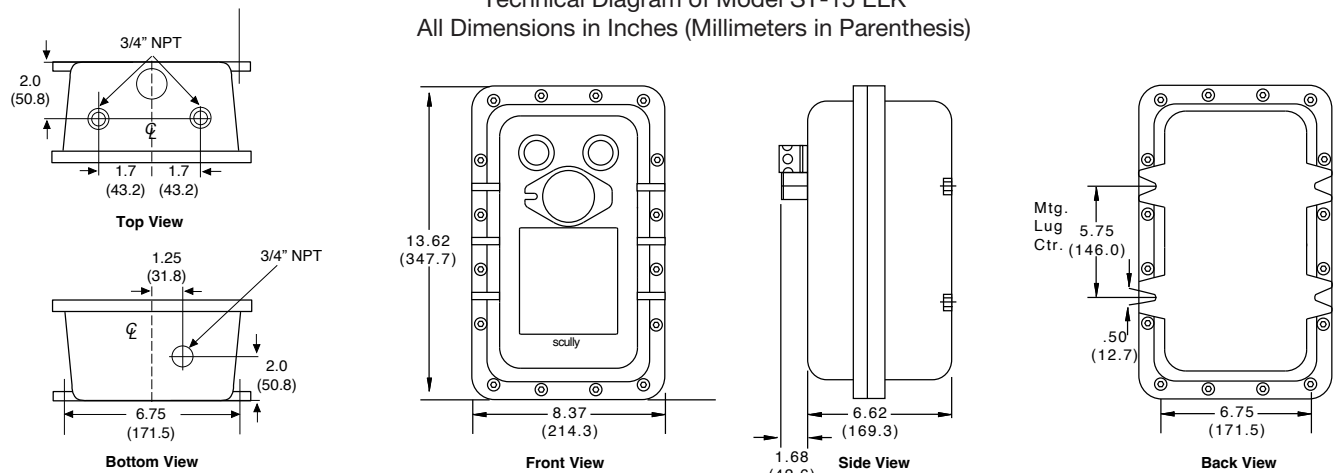
The Scully single point overfill prevention controllers feature two-wire optic or thermistor sensing. They are mounted at a loading rack or fill station for connection to a single compartment tank vehicle.

For additional static bond/ground proving options, the system works in conjunction with the Scully ST-47 Groundhog Self-Proving Grounding Verification System.

### FEATURES AND BENEFITS

- Maximum safety with Dynacheck® automatic and continuous self-checking circuitry.
- Will not permit loading under any fault or wet sensor conditions.
- Signals for automatic shut-off of product flow within a half-second of detecting an overfill condition.
- Ideal overfill prevention for refuelers, rail tank cars, tank trucks, chemical trailers and other one compartment vehicles.
- 30 years of proven, dependable performance.
- Easy connection to vehicles with versatile high impact plug and cable units.
- Approved by Factory Mutual (FM).

Technical Diagram of Model ST-15 ELK  
All Dimensions in Inches (Millimeters in Parenthesis)



# Single Point Overfill Prevention Controller

## TECHNICAL SPECIFICATIONS

### FM & CSA Approved Versions of:

Thermistor Sensors  
 SP-BL, SP-BLU, SP-BLH.  
 Two-wire Optic Sensors  
 SP-TO, SP-IO, SP-IR,  
 SP-TO(SS), SP-TO(SS)HP.

### Enclosures:

Explosion-proof, weathertight.  
 Corrosion inhibiting epoxy paint optional.

### Indicator Lamps:

Red = Power On/Non-Permit.  
 Green = Permit.

### Approvals:

Explosion-proof with intrinsically safe sensor connection outputs. Rated for Class I, Division 1, Groups C & D Hazardous Locations, by FM Global (FM) to Canadian and United States standards.

### Turn on response time:

6 – 30 seconds (typical) for thermistors. Two-wire optics turn on instantly.

### Shutdown

**Response Time:** Less than 1 second.

### Power Requirements:

ST-15–115 Models: 105–130 VAC, 50/60 Hz.  
 20 Watts maximum.

ST-15–240 Models: 210–250 VAC, 50/60 Hz.  
 20 Watts maximum.

### Connections:

Provided by internal terminal strips.

### Output Control:

One normally open volt free contact, rated 250 VAC, 5A resistive.

### Output Control Fuse:

Internal 5A.

### Weight:

28 lbs. (12.7 kg).

**NOTE:** The Scully ST-15 is an intrinsically safe system. For maximum safety, it should be used only in conjunction with sensors manufactured by Scully not to jeopardize the conditions of the approvals.

SIL Capable



## ORDERING INFORMATION

Model	Description	Part Number
ST-15-115-EL	Single Point Controller with Explosion-proof Housing and Indicator Lamps, 115VAC	07528
ST-15-115-ELK	Single Point Controller with Explosion-proof Housing, Indicator Lamps, Lockable Bypass Switch, 115VAC	07677
ST-15-240-EL	Single Point Controller with Explosion-proof Housing and Indicator Lamps, 240VAC	07640
ST-15-240-ELK	Single Point Controller with Explosion-proof Housing, Indicator Lamps, Lockable Bypass Switch, 240VAC	07547

## REPLACEMENT PARTS

Module Assembly	ST-15C-120 Single Point Controller	08756
Module Assembly	ST-15C-240 Single Point Controller	08656

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