ST-15
Single Point Overfill Prevention Controller

Featuring Dynacheck® – Automatic and Continuous Self-Checking Circuitry

ST-15

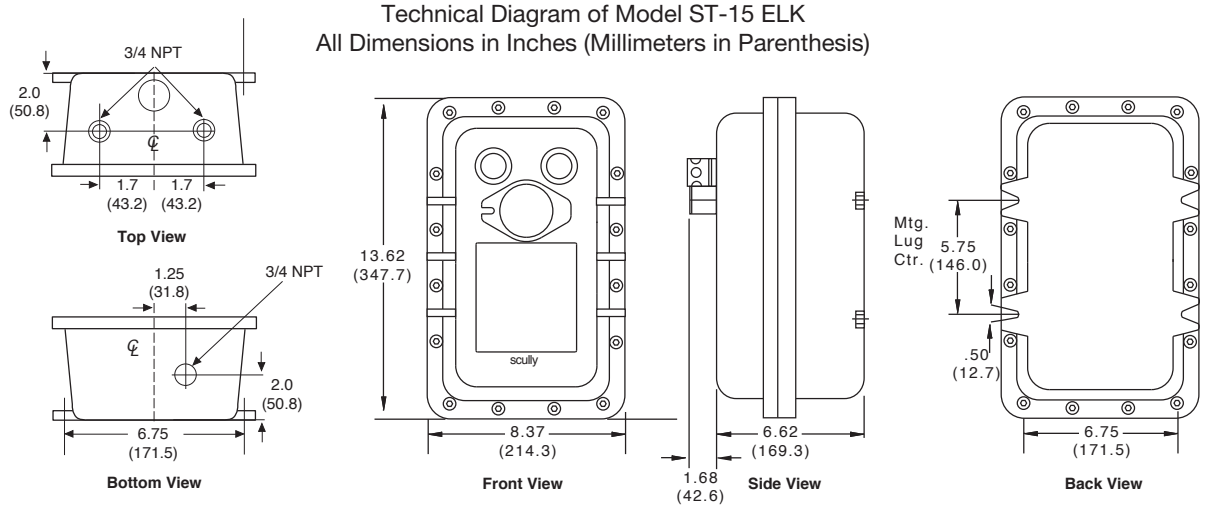
DESCRIPTION

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.
The ST-15 provides the vehicle with an adequate static ground path to the rack provided the vehicle overfill equipment is wired and maintained to factory specifications. For additional ground proving options, the system works in conjunction with the Scully Groundhog Self-Proving Ground 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

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



60629 Rev C

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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-TOM, 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: XP-AIS / I / 1 / CD / T6 Ta = -40°C to 60°C; Entity – 61654;

XP-AIS/ I / 1 / IIB/ T6 Ta = -40°C to 60°C; Entity 61654

Class I Zone 1 Group IIB

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

Shutdown Response Time: 0.5 seconds maximum

Power Requirements: 105 - 130 VAC, 50-60 Hz, 20 watts maximum, 210 - 250 VAC nominal, 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, energized when the sensor is dry.

Output Control Fuse: Internal 5 Amperes.

Size: Refer to Diagram for EL & ELK models.

Weight: 28 lbs. (12.7 kg) EL & ELK Units

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.

FM C US APPROVED

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

115 VAC	Control circuit module only, ST-15-115H	08756
240 VAC	Control circuit module only, ST-15-240H	08656

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Specifications are subject to change without notice.

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