



ST-15C

Single Point Overfill Prevention Controller

Featuring Dynacheck® – Automatic and Continuous Self-Checking Circuitry

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-15C provides the vehicle with an adequate static ground path to the gantry 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 Earthing Verification System.



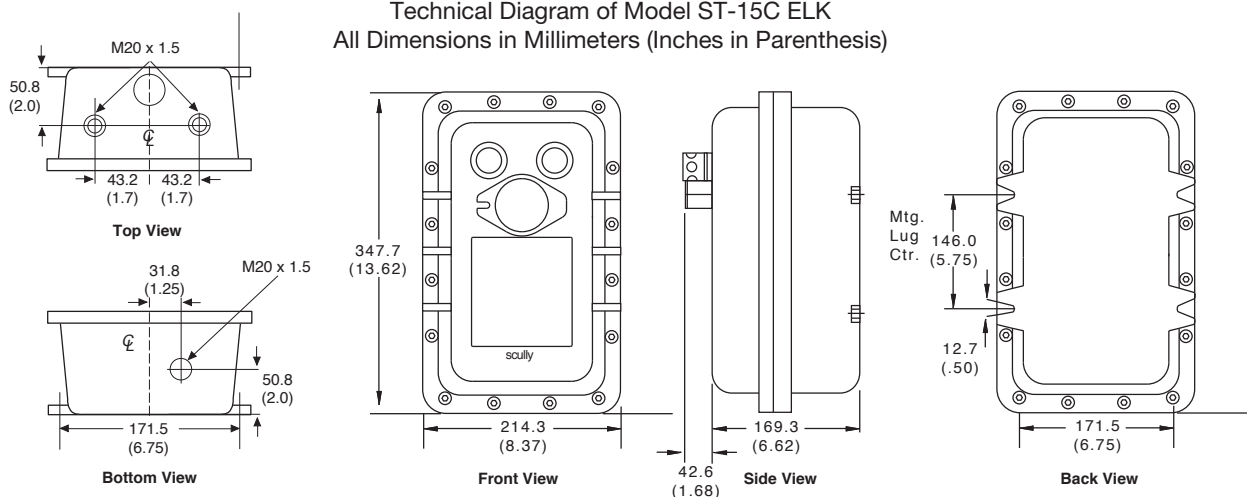
ST-15C

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.
- ATEX, IECEx and UKEX Approved. SIL 3 capable.



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



Single Point Overfill Prevention Controller

TECHNICAL SPECIFICATIONS

Approved Versions of: Thermistor Sensors SP-BLK, SP-BLUK, SP-BLHK
Two-Wire Optic Sensors, SP-TO, SP-TO(SS), SP-TO(SS)HP, SP-IO, SP-IR.

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

Indicator Lamps: Red = Power On/Non-Permit.
Green = Permit.

Approvals: BAS22UKEX0024X
IECEX BAS 22.0011X
Ex db [ia Ga] mb IIB Gb
(Tamb -40°C to +60°C)



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: ST-15–240 Models: 200–250 VAC, 50/60 Hz. 20 Watts maximum.

ST-15–120 Models: 100–130 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: 12.7 kg (28 lbs.).

NOTE: The Scully ST-15C 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.



ORDERING INFORMATION		
Model	Description	Part Number
ST-15C-240-ELK	Single Point Controller with Explosion-proof Housing, Indicator Lamps, Lockable Bypass Switch, 240VAC	08631
ST-15C-240-EL	Single Point Controller with Explosion-proof Housing, Indicator Lamps, 240VAC	08633
ST-15C-120-ELK	Single Point Controller with Explosion-proof Housing, Indicator Lamps, 120VAC	09631
REPLACEMENT PARTS		
Model	Description	Part Number
Module Assembly	ST-15C-240 Single Point Controller	08656
Module Assembly	ST-15C-120 Single Point Controller	08756
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
Replacement Bulb	6W, 240V	27065
Lock Box	Lock Box replacement parts (ST-15C/35C)	08360
Bypass switch operator	3 Position	26055
Contact Block	Bypass switch	26022

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Dynamic Self-Testing® Overfill Prevention Systems

