



ST-35

Multiple Point Optic Sensing Overfill Prevention Controller

Featuring Dynacheck® – Automatic and Continuous Self-Checking Circuitry



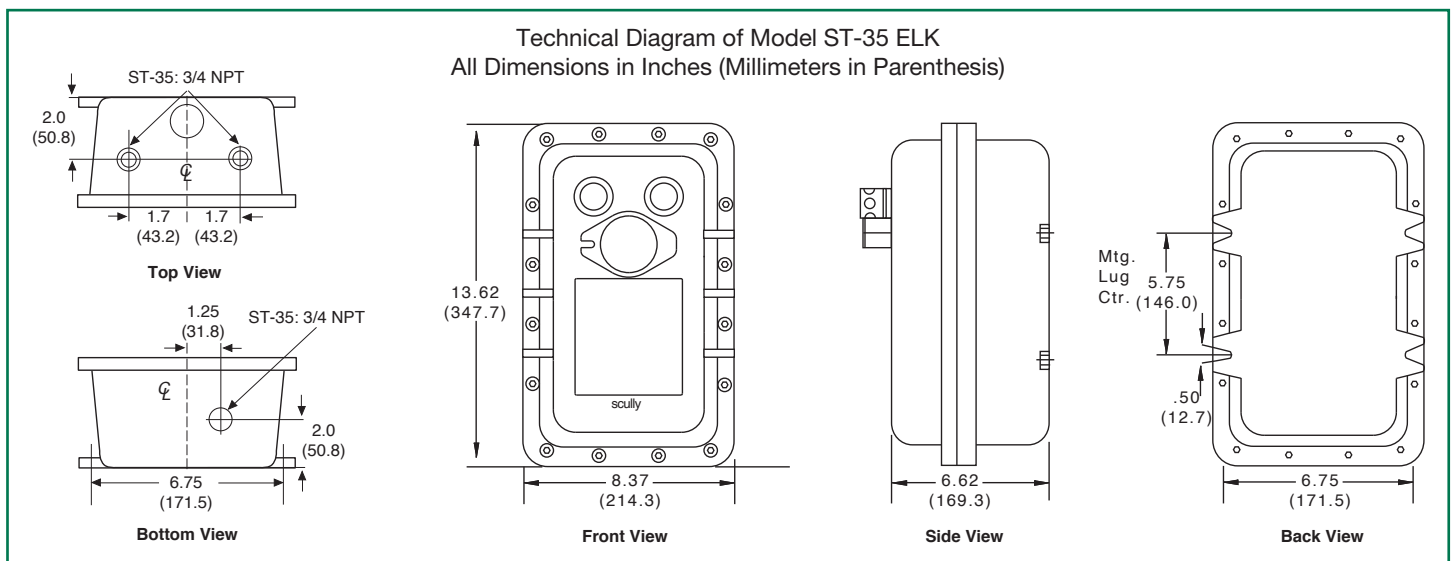
ST-35

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 30' coiled cable connect to the vehicle mounted receptacle, or socket, which is wired to the refueler 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.
- Easy connection to vehicles with rugged, versa-tilt plug and cable units.
- Will not permit loading under any fault or wet sensor condition.
- ST-35 models monitor 1 – 8 compartment tank vehicles while the ST-35C models monitor 1 – 12 compartment tank vehicles.
- Signals for automatic shut off of product flow within a half-second of detecting a potential overfill condition.
- Approved by Factory Mutual (FM)
- Complete compatibility with Scully IntelliCheck® and Load Anywhere® onboard systems and independent five-wire optic sensors.



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TECHNICAL SPECIFICATIONS

Temperature Range: -40° to +140° F (-40° to +60° C)
Weight: 28 lbs. (12.7 kgs.)
Response Time: 0.5 seconds maximum
Approvals: ST-35: FM for use in Class 1, Division 1, Group D hazardous locations.
Power Requirements: 100–130 VAC, 50/60 Hz, 20 W max.
200–250 VAC, 50/60 Hz, 20 W max.
Connections: Provided by internal terminal strips
Output Relay: One normally open volt-free contact, rated 250 VAC 5A resistive. Energized when the sensors are dry.

Output Control Fuse: Internal 5 Ampere
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-35-115-EL Multi-Point Optic Controller	07901
ST-35-115-ELK Multi-Point Optic Controller	07903
ST-35-240-ELK Multi-Point Optic Controller	07931
SC-6AO Sculcon Junction Box Kit, Blue Plug, Blue Coil Cable, 30'	08161
SC-6AO Sculcon Junction Box Kit, Blue Plug, Blue Straight Cable, 20'	08160
SC-6W Sculcon Junction Box Kit, Blue Plug, Blue Coil Cable, 30'	08159
SC-6W Sculcon Junction Box Kit, Blue Plug, Blue Straight Cable, 20'	08139
SC-6W/D Sculcon Junction Box Kit, Blue Plug, Blue Coil Cable, 30', w/ Deadman	08674

REPLACEMENT PARTS

Module Assembly	ST-35C-115 Multi-Point Optic Controller	08808
Module Assembly	ST-35C-240 Multi-Point Optic Controller	08647

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