

GSUL safe ground indicator system

Prevents operation of pumps without a safe ground for static dissipation.

Class I, Division 1, Groups C, D, and Zone 1, Groups IIB, IIA; NEMA 7 Class II, Division 1, Groups E, F, G; NEMA 9

01 Unit shown with covers removed



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Applications

Volatile or classified areas such as:

- Tank farms
- Petrochem
- Cosmetics
- Grain mills
- Vehicular or rail transport

Specifications

Enclosure: Cast copper-free aluminum with epoxy powder-coated finish

Outlets: Regularly furnished tapped 3/4" NPT

Relay Contacts: Rated 1/3 hp, 10 A, 120 V AC;

1/2 hp, 10 A, 240 V AC

Certifications: UL listed, CSA certified



Instant visual confirmation of safe ground

The Russellstoll GSUL safe ground indicator system is designed to ensure that a safe ground has been established for dissipating ever-present static electricity from tank vehicles, carriers, drums and other conductive equipment before allowing the transfer of flammable materials. The GSUL indicates the establishment of a safe ground via two parallel-connected green signal lights. Two lights are used for redundancy – If one lamp burns out, visual indication of safe grounding will be maintained by the other.

Intrinsically safe circuitry

The GSUL safe ground indicator system features an intrinsically safe, low-energy ground-sensing circuit, which does not carry sufficient electrical energy to cause ignition in classified hazardous locations.

In operation, the ground-sensing circuit extends through the grounding clamp and its connection to the ground indicator, the metal portion of the vehicle between the jaw terminals of the clamp and earth ground electrode.

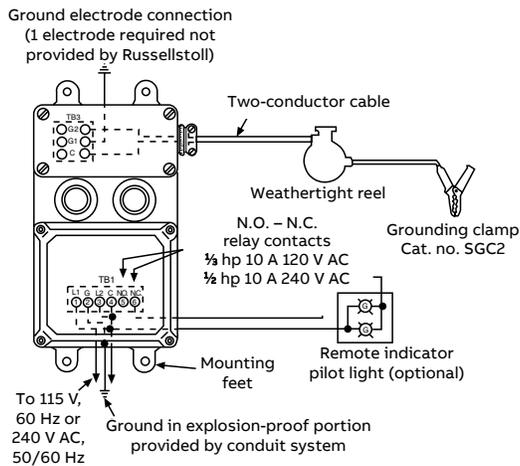
Pumps won't operate until safe ground is established

A control relay in the GSUL safe ground indicator system provides interlocked control of pump motors at the loading platform. The electronic control circuit will be de-energized while the green lights are off. Attaching the clamps to the tank closes the interlocking contact and energizes the control circuits to the motors.

01 Wiring diagram

GSUL safe operating features

- Two redundant, parallel green indicator lights glow when safe ground is established
- Lamps offer approximately 20,000 hours of operating life
- Unit may be ordered without lights where remote visual indication is desired
- Intrinsically safe, simplified circuitry
- Integral, intrinsically safe wiring compartment with approved strain-relief fitting for connection of cable from grounding clamp
- Solid-state actuating and control circuits mounted on removable printed circuit board
- Enclosure protects components against moisture
- Control relay provided for interlocked control of pump motor at loading rack
- Grounding clamp (ordered separately) provides dual isolated tip contacts in a heavy-duty cast-aluminum handle design



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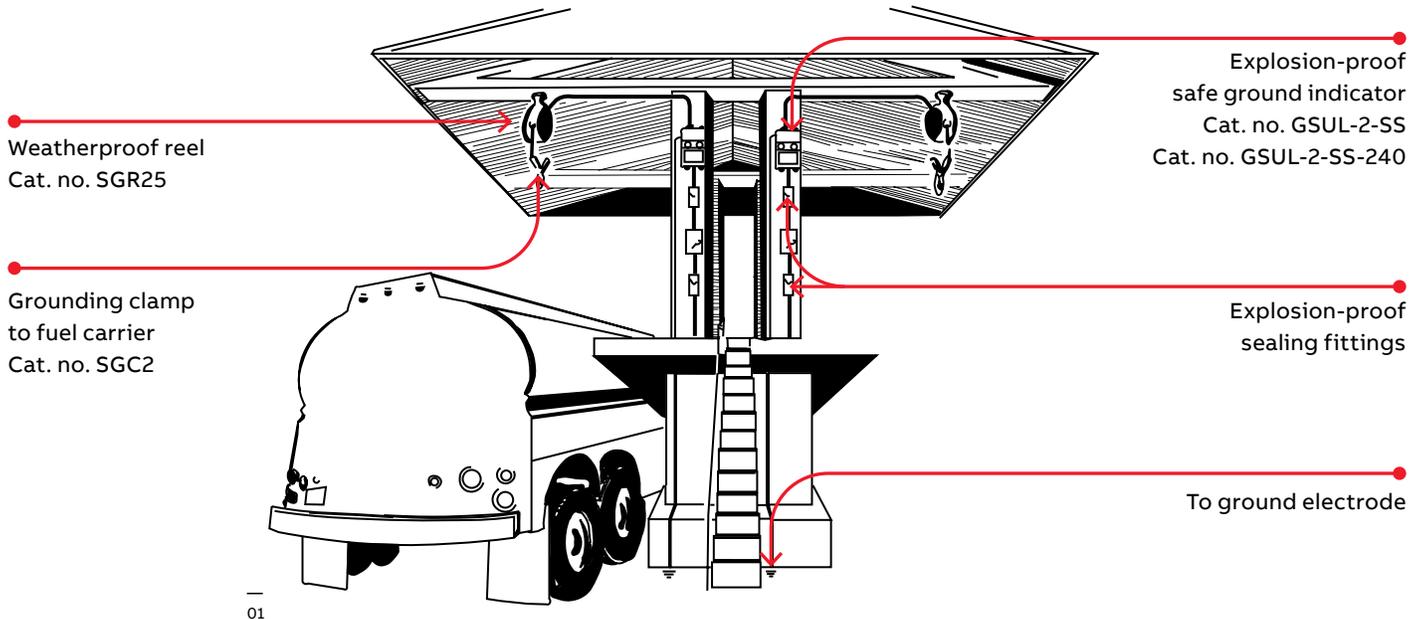
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Prevents operation of pumps without a safe ground for static dissipation.

01 Loading rack illustration suggests a typical installation, which includes an explosion-proof switch, explosion-proof sealing fittings, weathertight reel and the GSUL-2-SS safe ground indicator with 2-wire grounding clamp.

02 GCC1

Typical installation



Aerospace/industrial static ground devices

Static grounding receptacles are used in airport and aerospace installations worldwide during fueling, testing and maintenance procedures. Normal mounting is concrete/tarmac floor inset, threaded onto copper ground rod.

Heavy brass construction cup includes optional cover and receptacle's contact pin. Accommodates a wide variety of single-contact (copper on steel wire) static ground wire clamps in service.



| Cat. no. | Description |
|----------|---------------------------|
| GCC1 | Ground cup with cover* |
| GC1 | Ground cup without cover* |
| F06146 | Replacement contact tip** |

* Hub is tapped for $\frac{3}{4}$ "-10.

** Hub is tapped for $\frac{1}{2}$ "-13.

GSUL safe ground indicator system

Maximum 600 V AC or 250 V DC



GSUL-2-SS

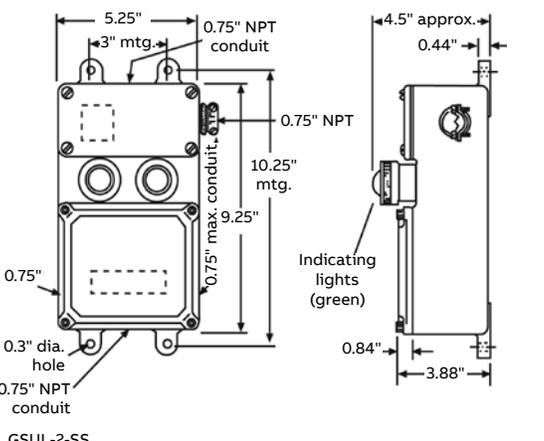
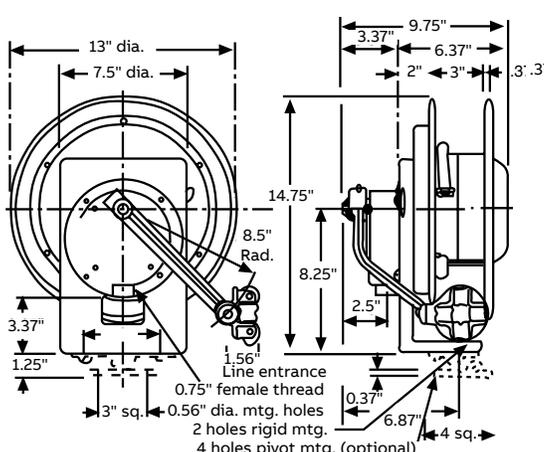
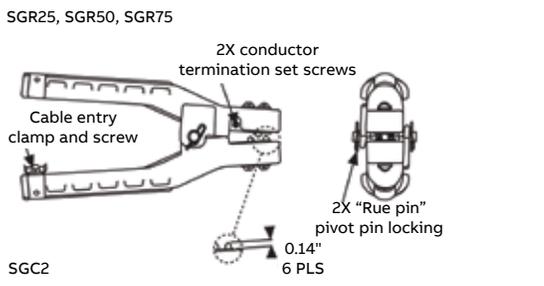


SGR25, SGR50, SGR75



SGC2

Maximum 600 V AC or 250 V DC

| | Cat. no. | Description |
|--|---|--|
|  <p>GSUL-2-SS</p> | <p>GSUL2SS GSUL2SS-240 SGC2 SGR25 SGR50 SGR75</p> | <p>Safe ground indicator with indicator lights, 120 V, UL/CSA Safe ground indicator with indicator lights, 240 V, CSA Safe ground static clamp Weathertight retracting reel with 25 ft. of 12/2 SJO-W cable Weathertight retracting reel with 50 ft. of 12/2 SJO-W cable Weathertight retracting reel with 75 ft. of 12/2 SJO-W cable</p> |
|  <p>SGR25, SGR50, SGR75</p> | <p>Replacement parts for GSUL</p> <p>C13662 GX24RCB F30674 F30602 ELAG 310993</p> <p>Replacement parts for SGC2</p> <p>GX2TK</p> | <p>Printed circuit board, 120 V (includes relay) Printed circuit board, 240 V (includes relay) Control relay Lamp socket assembly Pilot light globe assembly (green) Lamp for GSUL2SS Ground clamp repair kit</p> |
|  <p>SGC2</p> | | |