

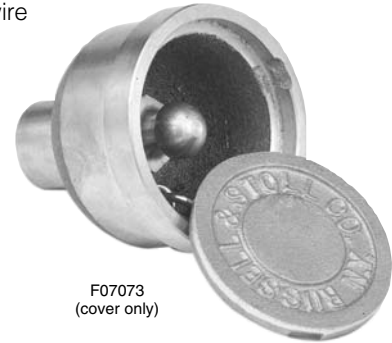
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Static Ground Receptacle

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 receptacles contact pin. Accommodates a wide variety of single contact (copper on steel wire) static ground wire clamps in service.



F07073
(cover only)

Ordering Information

Description	Cat. No.
Ground cup w/ cover*	GCC1
Ground cup with out cover*	GC1
Replacement contact tip**	F06146

* Hub is tapped for 3/4" -10
 ** Hub is tapped for 1/2" - 13

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Safe Ground Indicator System (GSUL)

Class I, Groups C and D NEMA 7
 Class II, Groups E, F and G NEMA 9



Instant signal for safe ground

Ground indicators are designed for grounding tank vehicles, carriers, drums or similar applications for dissipating ever-present static electricity. The establishment of a safe ground is indicated by the two parallel connected green signal lights. Two lights are used for continuity. In case one lamp burns out visual indication of safe groundings will be maintained.

Intrinsically safe circuitry

GSUL devices have an Intrinsically Safe (low energy) Ground Sensing Circuit, which does not have sufficient electrical energy to cause ignition in classified Hazardous Locations.

In use, the 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.

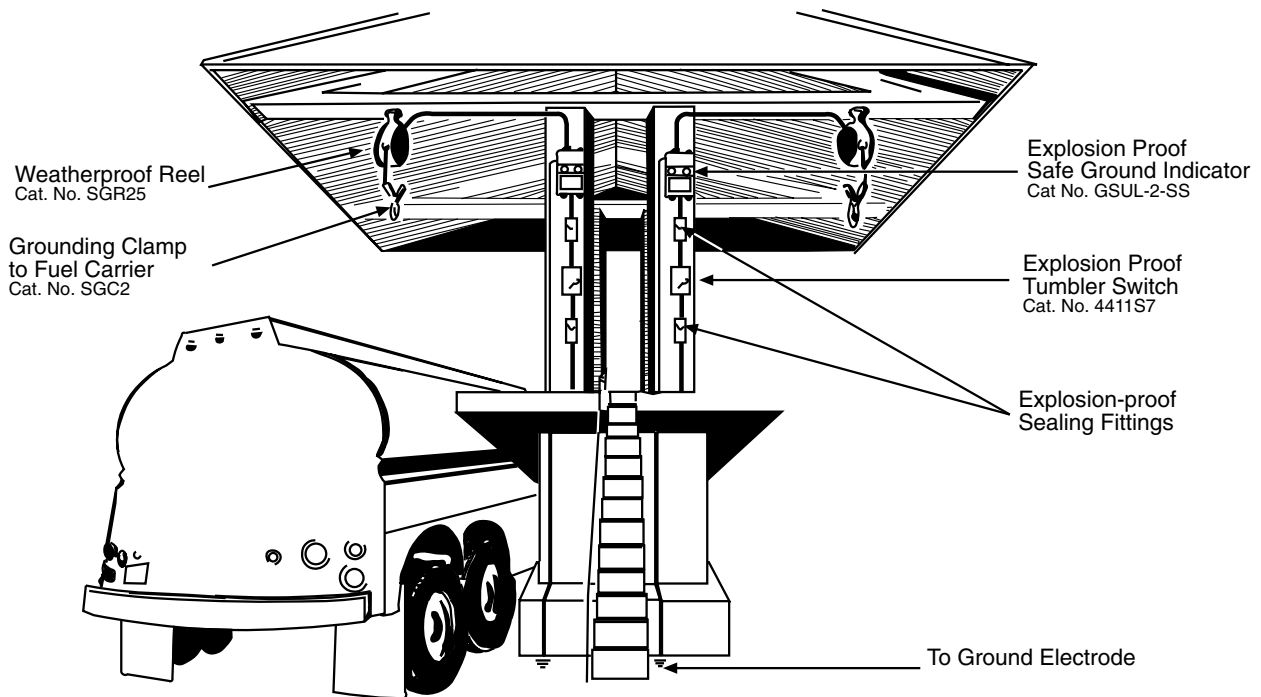
Pumps will not operate until a safe ground is established

A control relay is included for interlocked control of pump motor at the loading platform. The electronic control circuit will be de-energized while the green lights are off. Attaching the clamps to the tank will close the interlocking contact and energize the control circuits to the motors.

Applications

Volatile or classified areas such as:
 Tank Farms PetroChem
 Cosmetics Grain Mills
 Vehicular or Rail Transport

Typical Installation



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 special 2 wire grounding clamp.

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Safe Ground Indicator System (GSUL)



Unit shown with covers removed

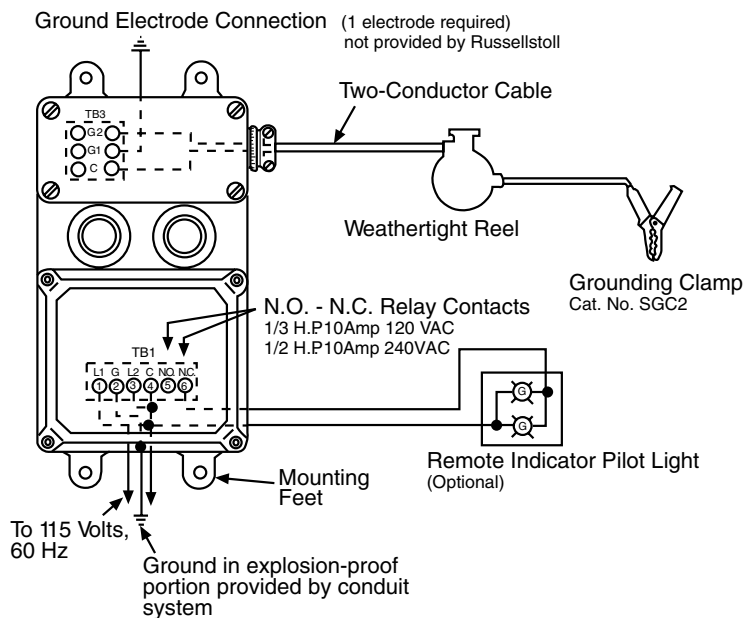
GSUL Safe Operating Features

- The Green Lights glow when a Safe Ground is established. Lamp life is approximately 20,000 hours.
- Intrinsically safe ... simplified circuitry.
- Furnished with two redundant parallel indicating pilot lights mounted on the enclosures. The unit may be ordered without the lights where remote visual indication is desired.
- Unit is furnished with an integral, intrinsically safe wiring compartment provided with an approved strain relief fitting for connection of cable from the grounding clamp.
- The actuating and control circuits are solid state units mounted on a removable printed circuit board.
- Components are well protected against moisture.
- A Control Relay is provided for interlocked control of Pump Motor at a loading rack.
- A special Grounding Clamp is available for use with the Ground indicator Unit, order SGC2.
- New grounding clamp (Cat. SGC2, replaces old cat. # GSUC) provides dual isolated tip contacts in a very heavy duty cast aluminum handle design.



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Basic Installation


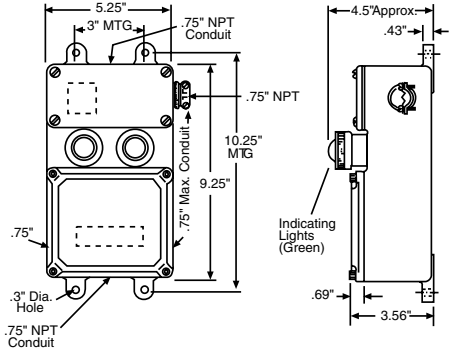

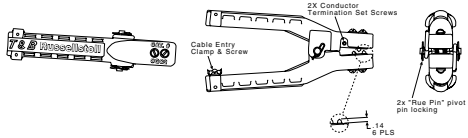
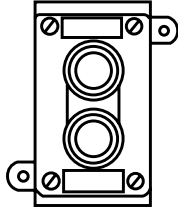
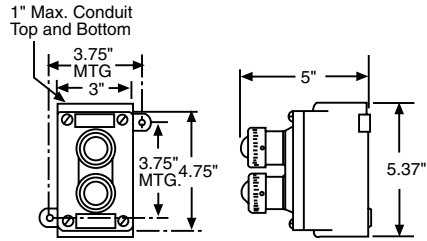

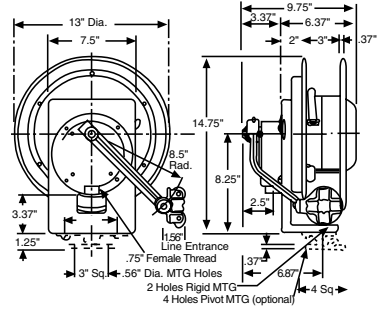


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Safe Ground Indicator System (GSUL)

Ordering Information

Safe Ground Indicators are designed to operate on 110-120 VAC, 50/60 Hz circuits, with grounding being made through use of a 2-conductor #12 AWG Type SO cable.

Catalog No.	Description	Dimensions
 <p>GSUL-2-SS*</p>	<p>Safe Ground Indicator with Indicator Lights (*furnished with lamps) (120V supply) New: 240V version available GSUL2SS-240 Contact Technical Services</p>	
 <p>SGC2</p>	<p>Grounding Clamp (Replaces GSUC)</p>	
 <p>P12G2</p>	<p>Remote Indicator Light – Surface mounting duplex pilot light with two green lens. Explosionproof. Consult Customer Service for Availability and Delivery.</p>	
 <p>SGR25** SGR50 SGR75</p>	<p>Weathertight Reel – Retracting Reel with 25 ft. of 2 conductor #12 AWG type SO cable. Note: 50 foot and 75 foot versions available. (Replaces AR253)</p>	

Notes:

- * Ground clamps must be ordered separately. Ground Indicators complete with Control Relay. When unit is required without control relay add suffix "X" to catalog number.
- Outlets** – Regularly furnished tapped 3/4" NPT as per diagram on opposite page.
- Enclosures** – Cast copper free aluminum, epoxy powder coated.
- ** Relay contacts are rated 1/3 H.P., 10 Amps, 120VAC; 1/2 H.P., 10 Amps, 240VAC.

Spare Parts

Description	Cat. No.
Printed Circuit Board	C13662
Control Relay**	F30674
Lamp for GSUL-2-SS	310993
Ground Clamp Repair Kit	GX2TK