

Russellstoll® Instruction Sheet for DuraGard® Safety Interlock Catalog Number Series 9MT

When your application calls for the utmost in safety and reliability, circuit breaker protected DuraGard® Safety Interlocks provide the industry's only breaker protected premium nonmetallic interlocked outlet. Molded from DuraV® high performance thermoplastic, Russellstoll® DuraGard® Safety Interlocks can be used in industrial, commercial and process manufacturing environments. UL listed as enclosure type 4X (screw cap version). Flap cap version available for indoor use only.

Interlocks are available in 30 or 50 Amp ranges, either 2p3w or 3p4w with 5 standard polarizations to a maximum 3p4w, 480vac rating.

DuraGard® applications can include:

- o Maintenance and repair facilities
- o Shipyard welding stations
- o Job site temporary power stations
- o Data Center /hardware protected outlets
- o Portable equipment & mobile generators or lighting
- o Industrial power outlets for factories



WARNING

Risk of electrical shock. De-energize all power prior to installation or repair

PREPARATION

1. Recommended Tools & Accessories

Cable Cutters	Wire Strippers
Slip Jaw Wrench	Torque Wrench
Screw Drivers	Allen Wrench
Ohmmeter	Liquid-tight Conduit Fitting

2. Turn handle #8 to "OFF" position.
3. Note Fig. A. Cutaway. Remove cover #3 (4 screws #2) if attached to base. Mount base to wall or I-beam at a de-energized power drop with receptacle facing down, using adjustable swing-out mounting feet #1 for 4-point or center hung 3-point screw mounts. Tighten mounting screws to 20 in. lbs. Select wire /cable based on allowable ampacity Fig. B. If conduit entry, set and tighten conduit fitting, with O-ring between enclosure and threaded hub.
4. Attach ground wire #4 per schematic (Fig. C), to grounding hub #7. Establish wiring so that same colored/numbered circuits are maintained through each junction, with special attention to grounding lead connection.
5. Loosen pressure screws #5 on terminals of circuit breaker #6 and neutral block if used. Strip wire ends (from conduit) to 5/8" and insert into breaker terminals (line side). Tighten to value shown on breaker (See Fig. C).
6. Make sure disconnect handle #8 is in "OFF" position and reassemble cover #3 with screws #2 at max. 20 in. lbs. torque. Verify proper operation per "Electrical Testing" and "Operation" procedures.
7. Note catalog number, date and file instruction sheet for reference. See "OPERATION" section and instruct personnel accordingly.

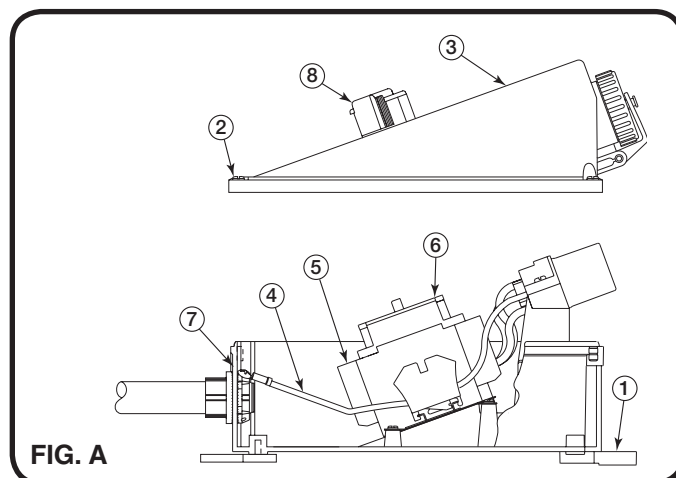


FIG. A

DuraGard® Ampere Rating	Maximum Cable Size AWG 60°C
30	#8 7 STRAND #8 FLEXIBLE (or building wire)
50	#6 7 STRAND #6 FLEXIBLE (or building wire)

FIG. B

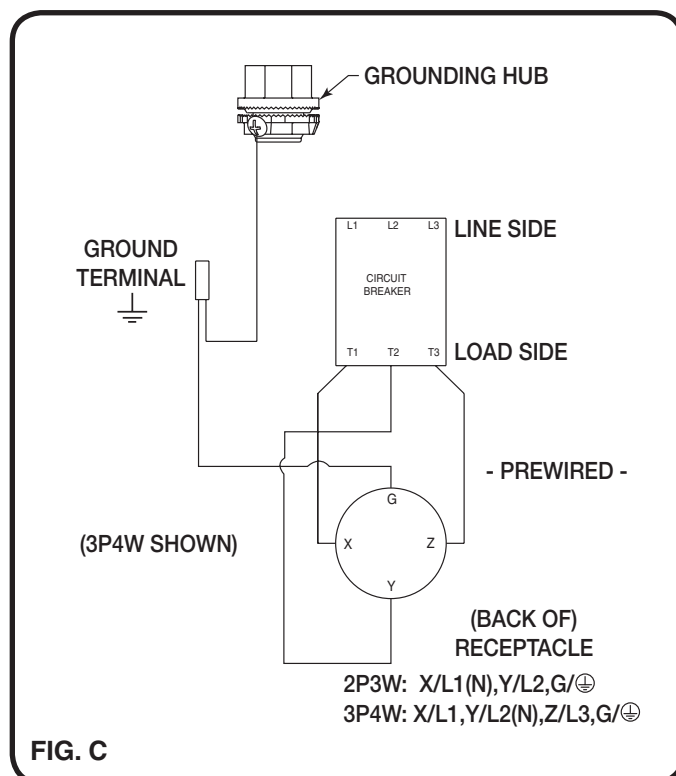


FIG. C

ELECTRICAL TESTING

Do not connect to power until the following electrical tests have been performed.

1. Make continuity checks of wiring with ohmmeter to verify correct phasing and grounding connections.
2. Check insulation resistance to be sure system does not have any short circuits or unwanted grounds.

Turn the power on and test the system, before connecting to any load.

OPERATION

To Operate Switch

1. Insert plug.
2. Tighten screw collar completely.
3. Turn handle to ON position for power.
4. Turn handle to OFF position to turn off power.

To Remove Plug

1. Turn handle to OFF position.
2. Loosen screw collar.
3. Remove plug.

For Tripped Breaker Handle in Trip Position

1. Turn handle past OFF position to reset breaker.
2. Turn handle to ON position for power.
(plug must be properly inserted)

MAINTENANCE

Inspection of electrical equipment used in industrial and heavy use situations must be conducted regularly to ensure proper function and safety.

Check for the following during inspection:

1. Unsecured contact wire terminals
2. Cracked or broken housings
3. An unfastened or loose ground conductor
4. Deteriorated or misplaced gaskets
5. Loose or missing screws
6. Frayed or broken insulation on wires
7. Damaged O-rings



WARNING



If any part of the interlock appears to be missing or damaged. **DISCONTINUE USE IMMEDIATELY.** Replace with factory replacement parts only before continuing use.

MAINTENANCE MANAGER: Please record the following information for your records.

COMPLETE CATALOG NO.
(As shown on device label)

DATE OF INSTALLATION

WARRANTY: Thomas & Betts sells this product with the understanding that the user will perform all necessary tests to determine the suitability of this product for the user's intended application. Thomas & Betts warrants that this product will be free from defects in materials and workmanship for a period of ninety (2) years following the date of purchase. Upon prompt notification of any warranted defect, Thomas & Betts will, at its option, repair or replace the defective product or refund the purchase price. Proof of purchase is required. Misuse or unauthorized modification of the product voids all warranties.

Limitations and Exclusions: THE ABOVE WARRANTY IS THE SOLE WARRANTY CONCERNING THIS PRODUCT, AND IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE SPECIFICALLY DISCLAIMED. LIABILITY FOR BREACH OF THE ABOVE WARRANTY IS LIMITED TO COST OF REPAIR OR REPLACEMENT OF THE PRODUCT, AND UNDER NO CIRCUMSTANCES WILL THOMAS & BETTS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.