Tamper resistant self-test GFCI receptacles

**Description**

2-Pole, 3-Wire Grounding
15A, 125V/AC; 20A, 125V/AC
NEMA 5-15, 5-20

**Design features**

- Performs periodic self-tests to ensure integrity of GFCI protection. If no ground-fault protection is detected, the device will trip, will not reset, and the status indicator light will glow amber.
- Meets and exceeds 10 kA short circuit testing and underwriters laboratories (UL) 2006 UL943 safety standards.
- Large visual trip indicator light gives quick notification of a tripped or “end of life” condition.
- Automatic grounding system eliminates need for bonding jumper in grounded metal enclosure, provides redundant measure of ground continuity where jumper is used.
- Ground termination with back wire clamp provides secure wiring and reduces installation time.
- Tamper resistant shutters resist the insertion of foreign objects.
- Line side terminals are backed out and staked for fast installation.
- Horizontal test/reset button alignment provides larger unobstructed area.
- Test and reset buttons are color matched to provide superior aesthetics.
- Tapered back wire openings handle multiple wire sizes and types for applications up to #10 AWG solid or stranded wire.
- When downstream receptacles are wired from load side, a 20 amp feed-through rating offers full protection.
- Line-load miswiring protection: ShockSentry GFCI’s will not provide power downstream when wired incorrectly.
- Tri-combo head terminal and mounting screws.

**Table 1. Tamper Resistant Self-Test GFCI Receptacles, Back & Side Wire**

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Description</th>
<th>Amps</th>
<th>Volts</th>
<th>Color Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRSGF15</td>
<td>NEMA 5-15R Duplex self-test GFCI, back &amp; side wire</td>
<td>15</td>
<td>125</td>
<td>A, B, BK, GY, LA, V, W</td>
</tr>
<tr>
<td>TRSGF20</td>
<td>NEMA 5-20R Duplex self-test GFCI, back &amp; side wire</td>
<td>20</td>
<td>125</td>
<td>A, B, BK, GY, LA, RD, V, W</td>
</tr>
</tbody>
</table>

Compliances, specifications and availability are subject to change without notice.
Applications

GFCI receptacles are designed with the safety of the user in mind. In commercial and industrial areas like public bathrooms, breakrooms and food service areas, the NEC® requires GFCI receptacles. Arrow Hart Self-Test GFCI receptacles are UL Listed and fully compliant with all of the latest UL943 Class A GFCI and UL498 requirements. The Self-Test GFCIs conduct an automatic test periodically to ensure GFCI protection. The device will trip and will not reset if GFCI protection is not available. Additionally, GFCIs incorporate a safety lock-out function to protect against mis-wired line-load connections and GFCI circuitry damage.

Table 2. Specifications

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>TRSGF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Type</td>
<td>Specification grade tamper resistant duplex self-test GFCI, 15A &amp; 20A</td>
</tr>
<tr>
<td>Wiring Type</td>
<td>Back &amp; side wire</td>
</tr>
</tbody>
</table>
| Testing & Code Compliance | • cULus Listed to UL498 and UL943, file no. E60120  
                              • Meets all UL943 (GFCI), UL498 (Receptacles), UL498 and applicable CSA requirements  
                              • NOM certified |
| Environmental Specifications | Flammability: Meets UL 94 requirements; V2 rated  
                                 Temperature Rating: -35°C to 66°C (-31°F to 150.8°F) |
| Electrical Specifications | Dielectric Voltage: Withstands 2000V per UL498  
                             Current Interrupting: Yes, at full-rated current  
                             Temperature Rise: Max. 30°C (86°F) after 100 cycles of overload @ 150% of rated current (DC)  
                             Trip time: 0.025 seconds (Class A)  
                             Frequency: 60 Hz; voltage: 125V, amperage: 15A/20A 20A feed through  
                             Short circuit testing: Meets and exceeds 10 kA  
                             Maximum interrupting capacity: 20 amps |
| Mechanical Specifications | Terminal Accommodation: #14 - 10 AWG  
                           Voltage Ratings: Permanently marked on device |

Table 3. Materials

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>TRSGF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Housing</td>
<td>Nylon</td>
</tr>
<tr>
<td>Bottom Housing</td>
<td>PVC</td>
</tr>
<tr>
<td>Strap</td>
<td>0.040“ thick steel, zinc plated</td>
</tr>
<tr>
<td>Line Contacts</td>
<td>0.030“ thick 3-leaf brass</td>
</tr>
<tr>
<td>Terminal Screws</td>
<td>#8-32 steel, brass plated, hot neutral screw nickel plated</td>
</tr>
<tr>
<td>Ground Screw</td>
<td>#8-32 steel, zinc plated (green)</td>
</tr>
<tr>
<td>Terminal Clamps</td>
<td>Brass-plated steel</td>
</tr>
</tbody>
</table>

Table 4. Color Ordering Information

For ordering devices, include Cat. No. followed by the color code: A (Almond), B (Brown), BK (Black), GY (Gray), LA (Lt. Almond), RD (Red), V (Ivory), W (White)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>BK</th>
<th>GY</th>
<th>LA</th>
<th>RD</th>
<th>V</th>
<th>W</th>
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</thead>
<tbody>
<tr>
<td>Almond</td>
<td>Brown</td>
<td>Black</td>
<td>Gray</td>
<td>Lt. Almond</td>
<td>Red</td>
<td>Ivory</td>
<td>White</td>
</tr>
</tbody>
</table>
Tamper resistant self-test
GFCI receptacles

Technical Data
Effective November 2014

Wiring Diagrams

Figure 1. One cable (2 or 3 wires) entering the box

Figure 2. Two cables (4 or 6 wires) entering the box

Product Dimensions

Figure 3. TRSGF15 Line art with dimensions

Figure 4. TRSGF20 Line art with dimensions

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Certifications & Compliances

<table>
<thead>
<tr>
<th>Catalog No.</th>
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<tbody>
<tr>
<td>TRSGFH15</td>
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<tr>
<td>TRSGFH20</td>
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**KEY:**
- cULus
- NOM
- Arrowlink
- Build-To-Spec

Build-To-Spec Customizable Devices