Arrow Hart hospital grade self-test GFCI receptacles

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

SGFH15

TR
TAMPER RESISTANT

TRSGFH20

Description

2-pole, 3-wire grounding
15A, 125V/AC; 20A, 125V/AC
NEMA 5-15, 5-20

5-15R   **5-20R**

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TAMPER RESISTANT

Design features

- Performs periodic self-tests to ensure integrity of GFCI protection.
- Meets and exceeds 10 kA short circuit testing and Underwriters Laboratories (UL) UL943 safety standards
- 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 help prevent foreign objects from being inserted
- 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 20A feed-through rating offers full protection
- Line-load miswiring protection: GFCIs will not provide power downstream when wired incorrectly
- Tri-combo head terminal and mounting screws
- Hospital grade models UL Listed, fully compliant with all latest UL943 Class A GFCI and UL498 hospital grade requirements
- Tamper resistant models comply with 2017 NEC Article 406.12 for all dwelling units
- Lock-out functionality prevents miswired line-load connections and GFCI circuitry damage
- Each device carries a 20A feed-through rating
- Longer, wider "bridged" strap provides 40% more contact area with wallboard, virtually eliminating floating installations
- Matching standard size thermoplastic wallplate included

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

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Table 1. Hospital grade self-test GFCIs

Catalog no.	Description	Rating A	V/AC	NEMA	Color suffix
☐ SGFH15___	Hospital GFCI, back & side wire	15	125	5-15R	B, GY, LA, RD, V, W
☐ SGFH15F___	Hospital GFCI, back & side wire	15	125	5-15R	B, GY, LA, RD, V, W
☐ SGFH20___	Hospital GFCI, back & side wire	20	125	5-20R	B, GY, LA, RD, V, W
☐ SGFH20F___	Hospital GFCI, back & side wire	20	125	5-20R	B, GY, LA, RD, V, W

Table 2. Hospital grade self-test tamper resistant GFCIs

Catalog no.	Description	Rating A	V/AC	NEMA	Color suffix
☐ TRSGFH15___	Tamper resistant hospital GFCI, back & side wire	15	125	5-15R	B, GY, LA, RD, V, W
☐ TRSGFH15F___	Tamper resistant hospital GFCI, back & side wire	15	125	5-15R	B, GY, LA, RD, V, W
☐ TRSGFH20___	Tamper resistant hospital GFCI, back & side wire	20	125	5-20R	B, GY, LA, RD, V, W
☐ TRSGFH20F___	Tamper resistant hospital GFCI, back & side wire	20	125	5-20R	B, GY, LA, RD, V, W

Table 3. GFCI status indicator

Test indicator RED LED	Test indicator AMBER LED	Diagnosis	Action
OFF	OFF	Device is functioning properly OR branch circuit may have no power	Manually depress TEST button to trip device. **Amber** light should come ON • If **Amber** light does <u>not</u> come ON, check if there is power to the branch • If **Amber** light does come ON, manually depress the RESET button to restore power to the device • If GFCI does not reset, replace GFCI • If GFCI does reset, device is functioning properly
OFF	**ON**	Device is in tripped state	Manually depress the RESET button to restore power to the device • If GFCI does not reset, replace GFCI
Blinking	OFF	Device's "end of life" indication OR device is in reset state	Manually depress TEST button to trip device. **Amber** light should come ON • If **Amber** light does <u>not</u> come ON, check if there is power to the branch • If **Amber** light does come ON, manually depress the RESET button to restore power to the device • If it does not reset, and/or the blinking continues, replace GFCI
Blinking	**ON**	Device's "end of life" indication OR device is in tripped state	Manually depress the RESET button to restore power to the device • If it does not reset, and/or the blinking continues, replace GFCI

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 functionality to protect against mis-wired line-load connections and GFCI circuitry damage.

Table 4. Specifications

Catalog no.	SGFH__ and SGFH__F__ series	TRSGFH__ and TRSGFH__F__ series
Device type	**Hospital grade duplex GFCI 15A & 20A**	**Hospital grade tamper resistant duplex GFCI, 15A & 20A**
Wiring type	Back & side wire	Back & side wire
Testing & code compliance	• cULus Listed to UL 498 and UL 943, file no. E60120 • Meets all UL 943 (GFCI), UL 498 (receptacles), UL 498 Hospital grade and applicable CSA requirements • NOM certified	• cULus Listed to UL 498 and UL 943, file no. E60120 • Meets all UL 943 (GFCI), UL 498 (receptacles), UL 498 Hospital grade and applicable CSA requirements • NOM certified
Environmental specifications	**Flammability:** Meets UL 94 requirements; V2 rated **Temperature rating:** -35ºC to 66ºC (-31ºF to 150.8ºF)	**Flammability:** Meets UL 94 requirements; V2 rated **Temperature rating:** -35ºC to 66ºC (-31ºF to 150.8ºF)
Electrical specifications	**Dielectric voltage:** Withstands 2000V per UL 498 **Current interrupting:** Yes, at full-rated current **Temperature rise:** Max. 30ºC (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	**Dielectric voltage:** Withstands 2000V per UL 498 **Current interrupting:** Yes, at full-rated current **Temperature rise:** Max. 30ºC (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 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	**Terminal accommodation:** #14 - 10 AWG **Voltage ratings:** Permanently marked on device

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Table 6. Materials

Catalog no.	SGFH__ and SGFH__F__ series	TRSGFH__ and TRSGFH__F__ series
Top housing	Thermoplastic, nylon	Thermoplastic, nylon
Bottom housing	Polycarbonate	Polycarbonate
Strap	0.047" thick steel, zinc plated	0.047" thick steel, zinc plated
Line contacts	0.030" thick brass	0.030" thick brass
Terminal & ground screws	#8-32 steel, brass plated; neutral screw nickel plated, ground screw green	#8-32 steel, brass plated; neutral screw nickel plated, ground screw green
Terminal clamps	0.070" thick steel	0.070" thick steel

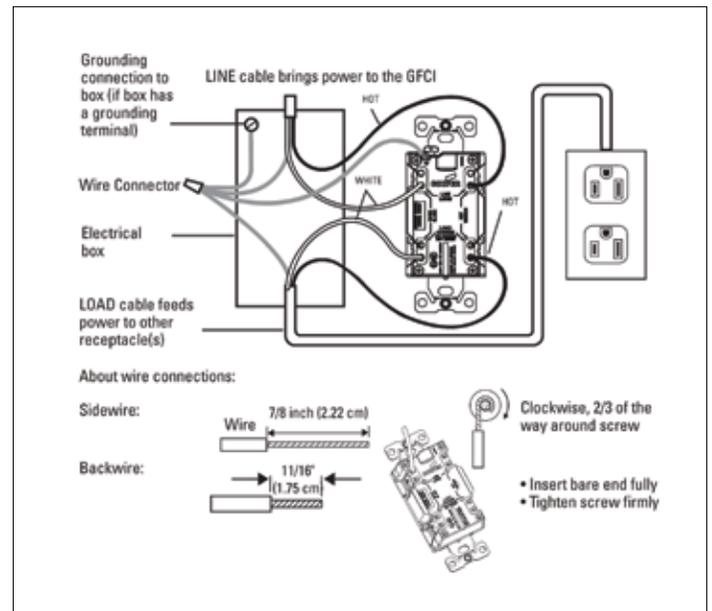## Table 5. Color ordering information

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

B	BK	GY	LA	RD	V	W
(Brown)	(Black)	(Gray)	(Lt. Almond)	(Red)	(Ivory)	(White)

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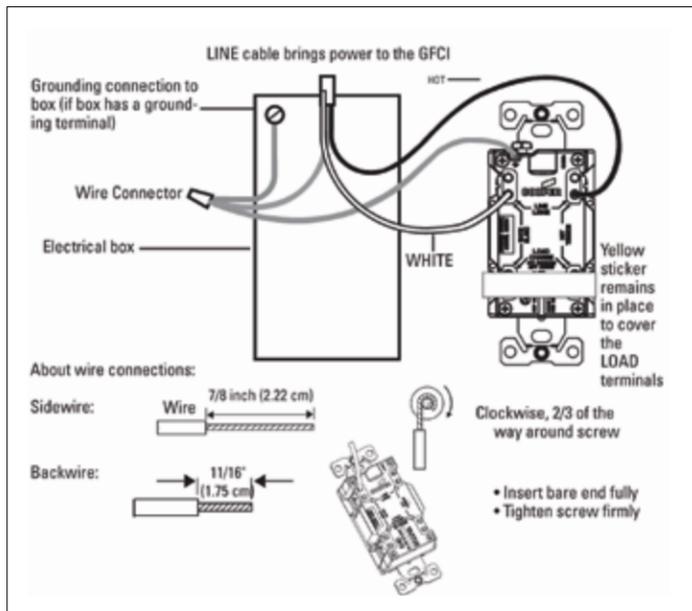
Figure 1. One cable (2 or 3 wires) entering the box

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

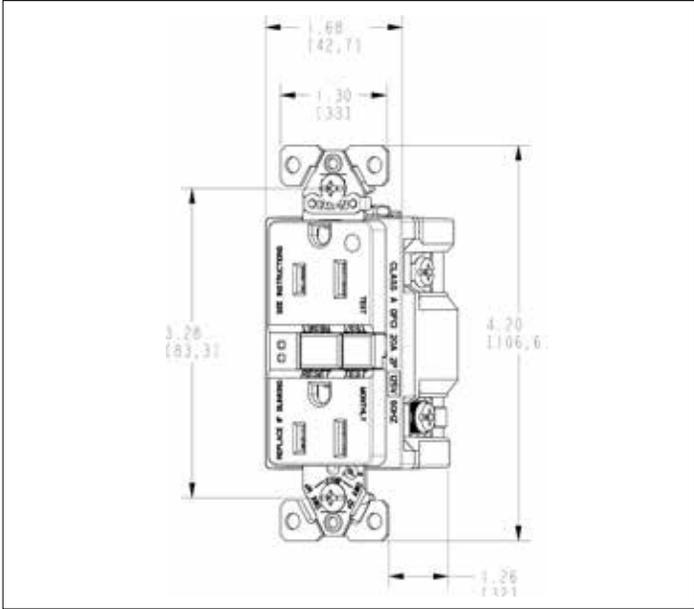| Project Name:	Prepared By:
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Product dimensions

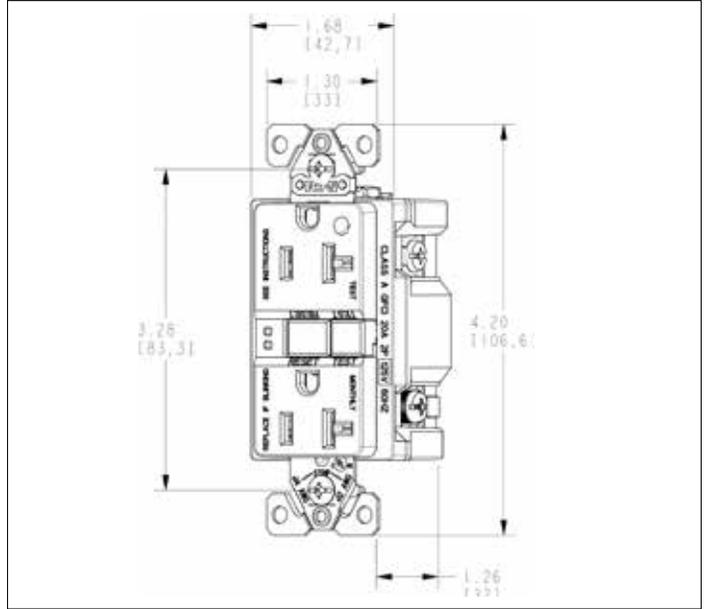**Figure 3.** SGFH15 Line art with dimensions
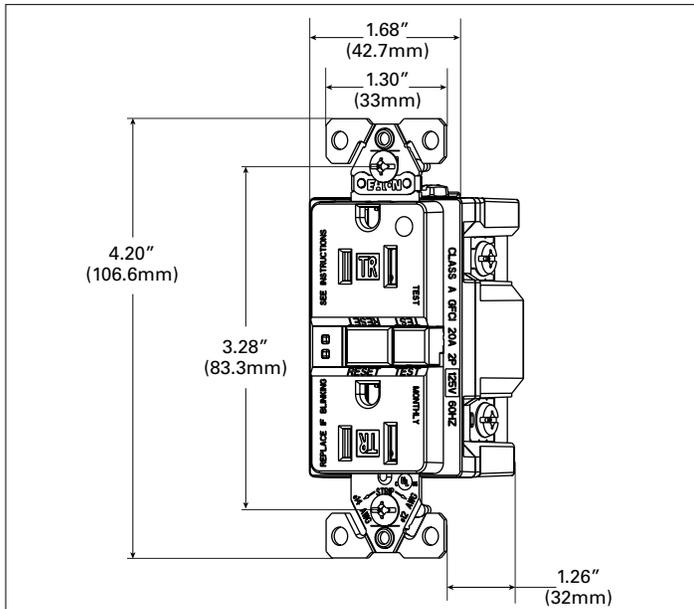

Figure 4. SGFH20 Line art with dimensions
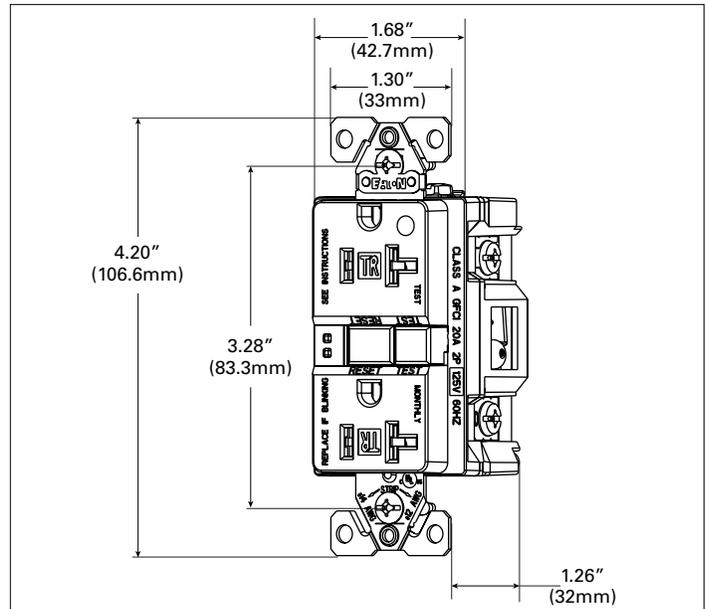

Figure 5. TRSGFH15 Line art with dimensions

Figure 6. TRSGFH20 Line art with dimensions

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Certifications & compliances

Catalog no.	cULus	NOM 426	Arrowlink	Build-To-Spec
SGFH15	•	•	•	•
SGFH15F	•	•	•	•
TRSGFH15	•	•	•	•
TRSGFH15F	•	•	•	•
SGFH20	•	•	•	•
SGFH20F	•	•	•	•
TRSGFH20	•	•	•	•
TRSGFH20F	•	•	•	•

KEY: cULus cULus   NOM 426 NOM   Arrowlink   Build-To-Spec

Build-To-Spec Customizable Devices

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