

BRYANT®

CIRCUITPRO® Self Test Ground Fault Receptacles



*The Ground Fault Performance
and Safety Choice*

www.bryant-electric.com



CIRCUITPRO® Self Test Technology 1st introduced by Bryant over 10 years ago!
...self test monitoring now required in 2015 UL 943 GFCI Safety Standard...

Bryant Self Test GFCI Patented Technology

Bryant CIRCUITPRO® GFCI receptacles continually test and monitor for “people protection capability” automatically. This patented safety feature includes disconnecting power to the receptacle if critical components are damaged and GFCI protection is lost. GFCI auto-monitoring is conducted continuously within every 30 seconds.

Also, clear visual indicators are provided on the device face representing power status, trip condition, ground fault condition and end of life status. In addition, for added safety, power will be denied to the receptacle face if reverse wiring of line and load was to occur.

Bryant Self Test Patented Technology

UL (Underwriters Laboratory) now requires all manufacturers to provide self test monitoring capability effective June 29, 2015. When was the last time you tested a GFCI receptacle? Industry studies indicate only a very small number of installations are actually being tested as is recommended by the manufacturer and UL. This is the fundamental reason this new revision has been incorporated into UL 943 standard for 2015.

Each Ground Fault Receptacle must automatically monitor GFCI functionality periodically	If the unit can no longer provide GFCI protection, it must comply with the following	Reverse line and load miswire function – (repeated)
Automatically test within (5) seconds of power to line and load terminals; periodically means every (3) hours or less.	Deny Power (trip with the inability to reset); if unit does reset it is subject to the next auto-monitoring test cycle. Visual and/or audible indication that it no longer can provide protection.	If the line conductor is wired to the load terminal, power to the receptacle face will be denied. This includes both the initial installation and any subsequent reinstallations.

Features

- **Patented CIRCUITPRO® Technology** — Continuous Self Test functionality and disconnects power to receptacle if critical components are damaged and GFCI protection is lost
- **Federal Communications Commission Part 15** — Compliant for radiated and conducted emissions
- **Thermoplastic Nylon Housing** — High Impact and Ultraviolet Resistant construction provides resilience in harsh environments
- **Clear Visual Indication of Ground Fault Receptacle Status** — LED Indicating Lights:
 - Green LED (power to the device)
 - Red LED (trip condition/ground fault condition)
 - Flashing Red LED (end of life)
- **Internal Back Wiring Clamp and Guide Pocket** — Quick and dependable termination
- **Protection Against Line and Load Reversal** — No power to the face or downstream receptacles if device is miswired
- **Installation Ease, Lower Labor Cost** — With auto-grounding clip, captive mounting screws and single tab “breakoff” ears and full “breakoff” for OEM raised covers
- **Night Light Option** — Light sensor controls for automatic “ON/OFF” and custom dual lens for optimum light output





Commercial Tamper-Resistant GFCI Receptacles

Features

- Patented shutter design for tamper-resistant protection
- Compliant with NEC® 406.12 and NEC® 517-18(c)
- Patented CIRCUITPRO® self test technology includes disconnecting power to the receptacle if critical components are damaged and GFCI protection is lost
- Alarm version provides audible notification of a trip condition

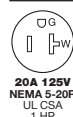


Tamper-Resistant

Rating Color



Ivory
Light Almond
White
Other Colors*



Ivory
Light Almond
White
Other Colors*



Standard

GFTRST15I
GFTRST15LA
GFTRST15W
GFTRST15*

GFTRST20I
GFTRST20LA
GFTRST20W
GFTRST20*



Night Light

Two LED Night Lights

GFTRST15INL
GFTRST15LANL
GFTRST15WNL
GFTRST15*NL

GFTRST20INL
GFTRST20LANL
GFTRST20WNL
GFTRST20*NL



Alarm

GFTRST15IZ
GFTRST15LAZ
GFTRST15WZ
GFTRST15*Z

GFTRST20IZ
GFTRST20LAZ
GFTRST20WZ
GFTRST20*Z

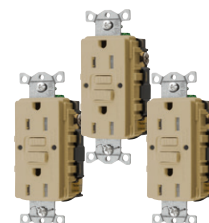


Combination Switch

15A 120V Switch

GFSPST15I
GFSPST15LA
GFSPST15W
—

—
—
—
—



Standard Three-Pack

GFTRST15I3
GFTRST15LA3
GFTRST15W3
—

GFTRST20I3
GFTRST20LA3
GFTRST20W3
—

Hospital Grade ● Tamper-Resistant

Rating Color



Ivory
Light Almond
White
Other Colors*



Ivory
Light Almond
White
Other Colors*

Night Light

Two LED Night Lights

GFST82ITRNL
GFST82LATRNL
GFST82WTRNL
GFST82*TRNL

GFST83ITRNL
GFST83LATRNL
GFST83WTRNL
GFST83*TRNL

Alarm

GFST82ITRZ
GFST82LATRZ
GFST82WTRZ
GFST82*TRZ

GFST83ITRZ
GFST83LATRZ
GFST83WTRZ
GFST83*TRZ



*Other colors include the following. To order, please replace * with the color code in parentheses. Almond (AL), Black (BK), Brown (No Suffix), Gray (GY) and Red (R).



Commercial Standard, Hospital Grade • and Weather Resistant Only GFCI Receptacles

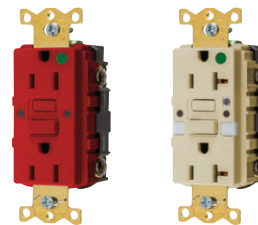
Features

- Patented CIRCUITPRO® self test technology includes disconnecting power to the receptacle if critical components are damaged and GFCI protection is lost
- Internal back wiring clamp and guide for quick and secure termination
- Night light option includes light sensor controls for automatic on and off, custom dual lens for optimum light output
- Fed. Spec UL Listed (Hospital Grade)
- Meets NEC requirements for weather resistance (406.9), UV and corrosion resistance for harsh and damp applications (Weather Resistant Only)



Standard		Standard	Night Light	Alarm	Blank Face	Standard Three-Pack	Weather Resistant Only
Rating	Color	Catalog Number	Two LED Night Lights	Catalog Number	Available in 20A Only	Three Devices per Pack	Catalog Number
	Ivory	GFRST15I	GFRST15INL	GFRST15IZ	—	GFRST15I3	GFWRST15I
	Light Almond	GFRST15LA	GFRST15LANL	GFRST15LAZ	—	GFRST15LA3	GFWRST15LA
	White	GFRST15W	GFRST15WNL	GFRST15WZ	—	GFRST15W3	GFWRST15W
	Other Colors*	GFRST15*	GFRST15*NL	GFRST15*Z	—	—	GFWRST15*
	Ivory	GFRST20I	GFRST20INL	GFRST20IZ	GFBFST20I	GFRST20I3	GFWRST20I
	Light Almond	GFRST20LA	GFRST20LANL	GFRST20LAZ	GFBFST20LA	GFRST20LA3	GFWRST20LA
	White	GFRST20W	GFRST20WNL	GFRST20WZ	GFBFST20W	GFRST20W3	GFWRST20W
	Other Colors*	GFRST20*	GFRST20*NL	GFRST20*Z	GFBFST20*	—	GFWRST20*

Hospital Grade •		Standard	Night Light	Alarm
Rating	Color		Two LED Night Lights	
	Ivory	GFST82I	GFST82INL	GFST82IZ
	Light Almond	GFST82LA	GFST82LANL	GFST82LAZ
	White	GFST82W	GFST82WNL	GFST82WZ
	Other Colors*	GFST82*	GFST82*NL	GFST82*Z
	Ivory	GFST83I	GFST83INL	GFST83IZ
	Light Almond	GFST83LA	GFST83LANL	GFST83LAZ
	White	GFST83W	GFST83WNL	GFST83WZ
	Other Colors*	GFST83*	GFST83*NL	GFST83*Z



*Other colors include the following. To order, please replace * with the color code in parentheses.
Almond (AL), Black (BK), Brown (No Suffix), Gray (GY) and Red (R).

NOTE: Consult factory for made to order Assembled in USA product.

Commercial Tamper-Resistant and Weather Resistant GFCI Receptacles

Features

- Patented shutter design for tamper-resistant protection
- Meets NEC requirements for TR (517-18c) and WR (406.9), UV and corrosion resistance for harsh and damp applications
- Patented CIRCUITPRO® self test technology
- Protects against line and load reversal, no power to the face or downstream if device is miswired



Tamper-Resistant Weather Resistant

Rating	Color	Standard	Isolated Ground
		Catalog Number	Catalog Number
	Ivory	GFTWRST15I	GFTWRST15IIG
	Light Almond	GFTWRST15LA	GFTWRST15LAIG
	White	GFTWRST15W	GFTWRST15WIG
	Other Colors*	GFTWRST15*	GFTWRST15*IG

	Ivory	GFTWRST20I	GFTWRST20IIG
	Light Almond	GFTWRST20LA	GFTWRST20LAIG
	White	GFTWRST20W	GFTWRST20WIG
	Other Colors*	GFTWRST20*	GFTWRST20*IG

Hospital Grade • Tamper-Resistant Weather Resistant

Rating	Color	Standard	Isolated Ground
		Catalog Number	Catalog Number
	Ivory	GFST82ITR	GFST82IIG
	Light Almond	GFST82LATR	GFST82LAIG
	White	GFST82WTR	GFST82WIG
	Other Colors*	GFST82*TR	GFST82*IG

	Ivory	GFST83ITR	GFST83IIG
	Light Almond	GFST83LATR	GFST83LAIG
	White	GFST83WTR	GFST83WIG
	Other Colors*	GFST83*TR	GFST83*IG

*Other colors include the following. To order, please replace * with the color code in parentheses.

Almond (AL), Black (BK), Brown (No Suffix), Gray (GY) and Red (R).

NOTE: Consult factory for made to order Assembled in USA product.

Performance

Certifications	Standards
UL File # E41978	Underwriters Laboratories 943 Class A GFCI 2015 & UL 498 Receptacles
CSA File # LR24886	Canadian Standards Association C22.2 Number 42
Industry Standards	NEMA WD 6, ANSI C-73, NOM, NEC & CEC
FCC Part 15 Class B	Certified conformance to radiated and conducted emission testing per FCC
Electrical	Performance Specifications
Trip Level	4 – 6 mA
Trip Time	.025 sec
Frequency	60 Hz
Voltage	120V AC +10% - 15%
Amperage	15A/20A, 20A feed thru
Dielectric voltage withstand	1500V minimum per UL 498
AC Horsepower Rating	1 HP
Current Interrupting	10,000 amps
Green LED Indicator	On when power is available to the device
Red Trip Indicator	On when device is in the tripped position
Red "EOL" Indicator	Rapid flash when unit has reached end of life and/or cannot provide GFCI protection
Mechanical	
Terminal Accommodations	14 – 10 AWG
Product Identification	Ratings are a permanent part of the device
Environmental	
Flammability	UL94 V2
Operating Temperature	- 35° to +66° C (- 30° to + 150° F)
Maximum Humidity	95%

Product Dimensions Inches (mm)

GFCI Receptacle	
A	3.27 (83.1)
B	2.75 (69.8)
C	1.75 (44.5)
D	1.47 (37.4)
E	1.10 (27.9)

BRYANT®

CIRCUITPRO® Self Test Ground Fault Receptacles

Common Questions and Answers

Q: Why are ground fault receptacles changing?

A: Underwriters Laboratory per revised Standard 943 has published new self test monitoring requirements that apply to all permanently installed GFCI products, effective June 29, 2015.

Q: What is the primary benefit from these changes?

A: Every Ground Fault Receptacle must now test itself for the ability to provide GFCI protection. Industry studies show installed ground fault receptacles are not being tested as required by the end user (minimum monthly).

Q: Can I continue to use current generation GFCI receptacles after June 28th?

A: Absolutely, the current Bryant GFCI receptacles can no longer be produced after June 28, 2015. However, these devices produced prior to June 28, 2015 can be sold by manufacturers and distributors until their inventories are depleted. There is no time limitation on use of this product.

Q: What is different about this new version?

A: A power denial feature has been added to this next generation of self test Ground Fault Receptacle product. If critical components are damaged and GFCI protection is lost, power to the receptacle will be disconnected.

Q: What types of indicators do the CIRCUITPRO® ground fault receptacles have?

A: Every Ground Fault Receptacle includes a solid green LED to indicate power to the face, a solid red LED for a tripped condition and a flashing red LED to indicate end of life when the unit should be replaced.

Q: How does the Alarm version function?

A: The Alarm Ground Fault Receptacle includes all LED indicators that are in the standard product. In addition, an audible alarm will sound when either the unit trips and/or is in end of life. A "silencing feature" is provided on the face of the device to turn off as needed.

Other GFCI Products Available



Temporary Power
Distribution Boxes



Portable Plug



Line Cords

BRYANT®

www.bryant-electric.com

