

Section K

Ground Fault Products



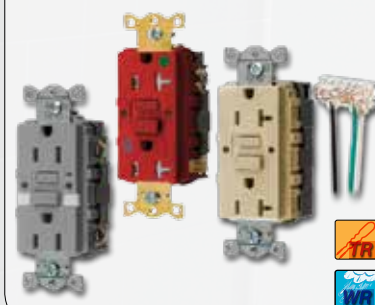
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Extra Heavy Duty Industrial GFCIs



Commercial GFCIs



GFCI Sensing Module and Circuit Breaker

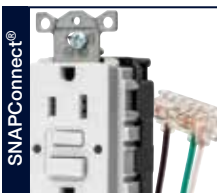


Portable GFCI Products





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



Hubbell Self Test GFCI Patented Technology

Hubbell AUTOGUARD® 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.

Hubbell 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 GFR 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 AUTOGUARD® 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 GFR 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



GFRST15WNL

Ground Fault Products

Extra Heavy Duty Industrial & Hospital Grade GFCI Receptacles

Tamper-Resistant and Weather Resistant



GFR5362SGI

Features

10kA Short Circuit Current Rating

Limits improper access to energized contacts

- Exclusive patented tamper-resistant protection through switching technology
- Continually tests and monitors for people protection automatically
- Patented self test diagnostics

Power indication

- Steady **"ON" GREEN LED** provides indication of power
- Steady **"ON" RED LED** provides visual indication of a ground fault condition; flashing red indicates device has lost capability to provide protection

No power at face if reverse wired

- Open circuit condition eliminates false assumption of protection at face

Durable face with V-0 flammability rating

- Polyester face cover



AUTOGUARD® Self Test GFCI Receptacles

Tamper-Resistant and Weather Resistant



Description	Rating	Color	Standard	Hospital Grade
Flush, polyester face, back and side wired, multiple drive screws.	 15A 125V NEMA 5-15R UL CSA 0.5 HP	Black Brown Gray Ivory Red White	GFR5262SGBK GFR5262SG GFR5262SGGY GFR5262SGI GFR5262SGR GFR5262SGW	GFR8200SGBK GFR8200SG GFR8200SGGY GFR8200SGI GFR8200SGR GFR8200SGW
Flush, polyester face, back and side wired, multiple drive screws.	 20A 125V NEMA 5-20R UL CSA 1 HP	Black Brown Gray Ivory Red White	GFR5362SGBK GFR5362SG GFR5362SGGY GFR5362SGI GFR5362SGR GFR5362SGW	GFR8300SGBK GFR8300SG GFR8300SGGY GFR8300SGI GFR8300SGR GFR8300SGW

Note: GFCI type receptacles should not be used in critical care patient areas or for electrical life support equipment applications because of the possibility of power interruption. All GFCI receptacles listed above are furnished with both a matching color nylon wallplate, and a SS26 302/304 super stainless steel wallplate. 20 amp feed-through capability. See page Tech-10 for Tamper-Resistant and Weather Resistant descriptions.

GFCI Receptacle Specifications per GFCI Products Listed (Pages K-2 to K-9)

Trip Level	4 to 6 mA.
Trip Time	.025 second nominal.
Frequency	60 Hz.
Voltage	120V AC +10% - 15% (102V to 132V).
Amperage	15A/20A, 20A Feed Thru.
Maximum Interrupting Capacity	10,000A.
Operating Temperature	-35°C to 66°C or -30°F to 150°F.
Maximum Humidity	95%.
Listings and Standards	Meets UL498 for receptacles, UL943 Class A for GFCIs UL File E41978. CSA Certified.
Codes	Meets all NEC® and CEC requirements. NEMA WD-6 ANSI 73.

NEC® is a registered trademark of the National Fire Protection Association (NFPA).



GFTRST20

Features

- Patented shutter design for tamper-resistant protection
- Compliant with NEC® 406.12 and NEC® 517-18(c)
- Patented AUTOGUARD® 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	Standard	Night Light Two LED Night Lights	Alarm	Combination Switch 15A 120V Switch	Standard 3-Pack Three Devices per Pack
	Almond	GFTRST15AL	GFTRST15ALNL	GFTRST15ALZ	—	—
	Black	GFTRST15BK	GFTRST15BKNL	GFTRST15BKZ	—	—
	Brown	GFTRST15	GFTRST15NL	GFTRST15Z	—	—
	Gray	GFTRST15GY	GFTRST15GYNL	GFTRST15GYZ	—	—
	Ivory	GFTRST15I	GFTRST15INL	GFTRST15IZ	GFSPST15I	GFTRST15I3
	Light Almond	GFTRST15LA	GFTRST15LANL	GFTRST15LAZ	GFSPST15LA	GFTRST15LA3
	Red	GFTRST15R	GFTRST15RNL	GFTRST15RZ	—	—
	White	GFTRST15W	GFTRST15WNL	GFTRST15WZ	GFSPST15W	GFTRST15W3
	Almond	GFTRST20AL	GFTRST20ALNL	GFTRST20ALZ	—	—
	Black	GFTRST20BK	GFTRST20BKNL	GFTRST20BKZ	—	—
	Brown	GFTRST20	GFTRST20NL	GFTRST20Z	—	—
	Gray	GFTRST20GY	GFTRST20GYNL	GFTRST20GYZ	—	—
	Ivory	GFTRST20I	GFTRST20INL	GFTRST20IZ	—	GFTRST20I3
	Light Almond	GFTRST20LA	GFTRST20LANL	GFTRST20LAZ	—	GFTRST20LA3
	Red	GFTRST20R	GFTRST20RNL	GFTRST20RZ	—	—
	White	GFTRST20W	GFTRST20WNL	GFTRST20WZ	—	GFTRST20W3

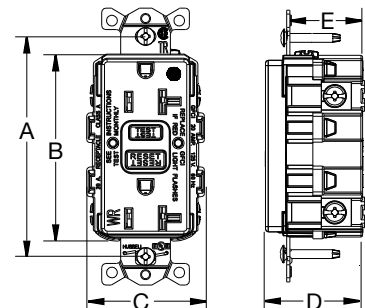


Hospital Grade • Tamper-Resistant

Rating	Color	Night Light Two LED Night Lights	Alarm
	Almond	GFTRST82ALNL	GFTRST82ALZ
	Black	GFTRST82BKNL	GFTRST82BKZ
	Brown	GFTRST82NL	GFTRST82Z
	Gray	GFTRST82GYNL	GFTRST82GYZ
	Ivory	GFTRST82INL	GFTRST82IZ
	Light Almond	GFTRST82LANL	GFTRST82LAZ
	Red	GFTRST82RNL	GFTRST82RZ
	White	GFTRST82WNL	GFTRST82WZ
	Almond	GFTRST83ALNL	GFTRST83ALZ
	Black	GFTRST83BKNL	GFTRST83BKZ
	Brown	GFTRST83NL	GFTRST83Z
	Gray	GFTRST83GYNL	GFTRST83GYZ
	Ivory	GFTRST83INL	GFTRST83IZ
	Light Almond	GFTRST83LANL	GFTRST83LAZ
	Red	GFTRST83RNL	GFTRST83RZ
	White	GFTRST83WNL	GFTRST83WZ

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)

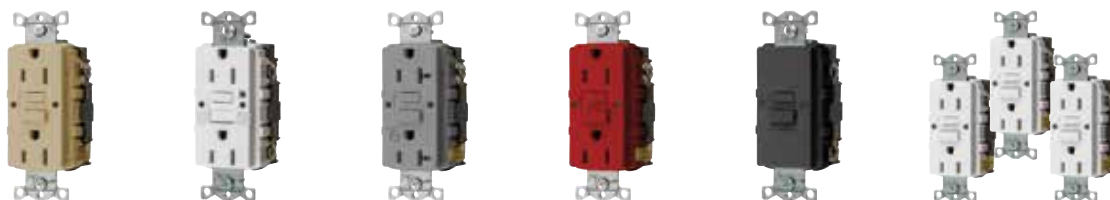




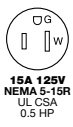
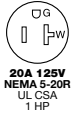
GFRST15WNL

Features

- Patented AUTOGUARD® 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



Standard

Rating	Color	Standard	Night Light Two LED Night Lights	Alarm	Assembled in USA	Blank Face Available in 20A Only	Standard 3-Pack Three Devices per Pack
	Almond	GFRST15AL	GFRST15ALNL	GFRST15ALZ	GFRST15ALU	—	—
	Black	GFRST15BK	GFRST15BKNL	GFRST15BKZ	GFRST15BKU	—	—
	Brown	GFRST15	GFRST15NL	GFRST15Z	GFRST15U	—	—
	Gray	GFRST15GY	GFRST15GYNL	GFRST15GYZ	GFRST15GYU	—	—
	Ivory	GFRST15I	GFRST15INL	GFRST15IZ	GFRST15IU	—	GFRST15I3
	Light Almond	GFRST15LA	GFRST15LANL	GFRST15LAZ	GFRST15LAU	—	GFRST15LA3
	Red	GFRST15R	GFRST15RNL	GFRST15RZ	GFRST15RU	—	—
	White	GFRST15W	GFRST15WNL	GFRST15WZ	GFRST15WU	—	GFRST15W3
	Almond	GFRST20AL	GFRST20ALNL	GFRST20ALZ	GFRST20ALU	GFBFST20AL	—
	Black	GFRST20BK	GFRST20BKNL	GFRST20BKZ	GFRST20BKU	GFBFST20BK	—
	Brown	GFRST20	GFRST20NL	GFRST20Z	GFRST20U	GFBFST20	—
	Gray	GFRST20GY	GFRST20GYNL	GFRST20GYZ	GFRST20GYU	GFBFST20GY	—
	Ivory	GFRST20I	GFRST20INL	GFRST20IZ	GFRST20IU	GFBFST20I	GFRST20I3
	Light Almond	GFRST20LA	GFRST20LANL	GFRST20LAZ	GFRST20LAU	GFBFST20LA	GFRST20LA3
	Red	GFRST20R	GFRST20RNL	GFRST20RZ	GFRST20RU	GFBFST20R	—
	White	GFRST20W	GFRST20WNL	GFRST20WZ	GFRST20WU	GFBFST20W	GFRST20W3

Standard SNAPConnect®



Rating	Color	Standard
	Almond	GFRST15SNAPAL
	Black	GFRST15SNAPBK
	Brown	GFRST15SNAP
	Gray	GFRST15SNAPGY
	Ivory	GFRST15SNAPI
	Light Almond	GFRST15SNAPLA
	Red	GFRST15SNAPR
	White	GFRST15SNAPW
	Almond	GFRST20SNAPAL
	Black	GFRST20SNAPBK
	Brown	GFRST20SNAP
	Gray	GFRST20SNAPGY
	Ivory	GFRST20SNAPI
	Light Almond	GFRST20SNAPLA
	Red	GFRST20SNAPR
	White	GFRST20SNAPW

Right Angle Pigtailed Terminal



Description	Type	Catalog Number
Clear right angle terminal with 6 inch leads, 600V, #12 AWG THHN/THWN-2, Polycarbonate housing material.	Solid Stranded	SNAP1RA SNAP2RA

Ground Fault Products Commercial Standard Hospital Grade GFCI Receptacles



GFRST82WNL

Features

- Fed. Spec UL Listed, Hospital Grade
- Green power indicator and red trip indicator
- Patented AUTOGUARD® self test technology
- Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple.



Hospital Grade ●

Rating	Color	Standard	Night Light Two LED Night Lights	Alarm	Assembled in USA
	Almond	GFRST82AL	GFRST82ALNL	GFRST82ALZ	GFRST82ALU
	Black	GFRST82BK	GFRST82BKNL	GFRST82BKZ	GFRST82BKU
	Brown	GFRST82	GFRST82NL	GFRST82Z	GFRST82U
	Gray	GFRST82GY	GFRST82GYNL	GFRST82GYZ	GFRST82GYU
	Ivory	GFRST82I	GFRST82INL	GFRST82IZ	GFRST82IU
	Light Almond	GFRST82LA	GFRST82LANL	GFRST82LAZ	GFRST82LAU
	Red	GFRST82R	GFRST82RNL	GFRST82RZ	GFRST82RU
	White	GFRST82W	GFRST82WNL	GFRST82WZ	GFRST82WU
	Almond	GFRST83AL	GFRST83ALNL	GFRST83ALZ	GFRST83ALU
	Black	GFRST83BK	GFRST83BKNL	GFRST83BKZ	GFRST83BKU
	Brown	GFRST83	GFRST83NL	GFRST83Z	GFRST83U
	Gray	GFRST83GY	GFRST83GYNL	GFRST83GYZ	GFRST83GYU
	Ivory	GFRST83I	GFRST83INL	GFRST83IZ	GFRST83IU
	Light Almond	GFRST83LA	GFRST83LANL	GFRST83LAZ	GFRST83LAU
	Red	GFRST83R	GFRST83RNL	GFRST83RZ	GFRST83RU
	White	GFRST83W	GFRST83WNL	GFRST83WZ	GFRST83WU



Hospital Grade ● SNAPConnect®

Rating	Color	Standard
	Almond	GFRST82SNAPAL
	Black	GFRST82SNAPBK
	Brown	GFRST82SNAP
	Gray	GFRST82SNAPGY
	Ivory	GFRST82SNAPI
	Light Almond	GFRST82SNAPLA
	Red	GFRST82SNAPR
	White	GFRST82SNAPW
	Almond	GFRST83SNAPAL
	Black	GFRST83SNAPBK
	Brown	GFRST83SNAP
	Gray	GFRST83SNAPGY
	Ivory	GFRST83SNAPI
	Light Almond	GFRST83SNAPLA
	Red	GFRST83SNAPR
	White	GFRST83SNAPW

Right Angle Pigtailed Terminal

Description	Type	Catalog Number
Clear right angle terminal with 6 inch leads, 600V, #12 AWG THHN/THWN-2, Polycarbonate housing material.	Solid Stranded	SNAP1RA SNAP2RA



Ground Fault Products Commercial Tamper-Resistant and Weather Resistant GFCI Receptacles



GFTWRST20WIG



**Tamper-Resistant
Weather Resistant**

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 AUTOGUARD® self test technology
- Protects against line and load reversal, no power to the face or downstream if device is miswired



Rating	Color	Standard	Assembled in USA	Isolated Ground	SNAPConnect®	Right Angle Pigtailed Terminal
	Almond	GFTWRST15AL	GFTWRST15ALU	GFTWRST15ALIG	GFTWRST15SNAPAL	Clear right angle terminal with 6 inch leads, 600V, #12 AWG THHN/THWN-2, Polycarbonate housing material.
	Black	GFTWRST15BK	GFTWRST15BKU	GFTWRST15BKIG	GFTWRST15SNAPBK	
	Brown	GFTWRST15	GFTWRST15U	GFTWRST15IG	GFTWRST15SNAP	
	Gray	GFTWRST15GY	GFTWRST15GYU	GFTWRST15GYIG	GFTWRST15SNAPGY	
	Ivory	GFTWRST15I	GFTWRST15IU	GFTWRST15IIG	GFTWRST15SNAPI	
	Light Almond	GFTWRST15LA	GFTWRST15LAU	GFTWRST15LAIG	GFTWRST15SNAPLA	
	Red	GFTWRST15R	GFTWRST15RU	GFTWRST15RIG	GFTWRST15SNAPR	
	White	GFTWRST15W	GFTWRST15WU	GFTWRST15WIG	GFTWRST15SNAPW	
						Solid SNAP1RA
						Stranded SNAP2RA
	Almond	GFTWRST20AL	GFTWRST20ALU	GFTWRST20ALIG	GFTWRST20SNAPAL	
	Black	GFTWRST20BK	GFTWRST20BKU	GFTWRST20BKIG	GFTWRST20SNAPBK	
	Brown	GFTWRST20	GFTWRST20U	GFTWRST20IG	GFTWRST20SNAP	
	Gray	GFTWRST20GY	GFTWRST20GYU	GFTWRST20GYIG	GFTWRST20SNAPGY	
	Ivory	GFTWRST20I	GFTWRST20IU	GFTWRST20IIG	GFTWRST20SNAPI	
	Light Almond	GFTWRST20LA	GFTWRST20LAU	GFTWRST20LAIG	GFTWRST20SNAPLA	
	Red	GFTWRST20R	GFTWRST20RU	GFTWRST20RIG	GFTWRST20SNAPR	
	White	GFTWRST20W	GFTWRST20WU	GFTWRST20WIG	GFTWRST20SNAPW	



**Hospital Grade •
Tamper-Resistant
Weather Resistant**



Rating	Color	Standard	Assembled in USA	Isolated Ground	SNAPConnect®	Right Angle Pigtailed Terminal
	Almond	GFTWRST82AL	GFTWRST82ALU	GFTWRST82ALIG	GFTWRST82SNAPAL	Clear right angle terminal with 6 inch leads, 600V, #12 AWG THHN/THWN-2, Polycarbonate housing material.
	Black	GFTWRST82BK	GFTWRST82BKU	GFTWRST82BKIG	GFTWRST82SNAPBK	
	Brown	GFTWRST82	GFTWRST82U	GFTWRST82IG	GFTWRST82SNAP	
	Gray	GFTWRST82GY	GFTWRST82GYU	GFTWRST82GYIG	GFTWRST82SNAPGY	
	Ivory	GFTWRST82I	GFTWRST82IU	GFTWRST82IIG	GFTWRST82SNAPI	
	Light Almond	GFTWRST82LA	GFTWRST82LAU	GFTWRST82LAIG	GFTWRST82SNAPLA	
	Red	GFTWRST82R	GFTWRST82RU	GFTWRST82RIG	GFTWRST82SNAPR	
	White	GFTWRST82W	GFTWRST82WU	GFTWRST82WIG	GFTWRST82SNAPW	
						Solid SNAP1RA
						Stranded SNAP2RA
	Almond	GFTWRST83AL	GFTWRST83ALU	GFTWRST83ALIG	GFTWRST83SNAPAL	
	Black	GFTWRST83BK	GFTWRST83BKU	GFTWRST83BKIG	GFTWRST83SNAPBK	
	Brown	GFTWRST83	GFTWRST83U	GFTWRST83IG	GFTWRST83SNAP	
	Gray	GFTWRST83GY	GFTWRST83GYU	GFTWRST83GYIG	GFTWRST83SNAPGY	
	Ivory	GFTWRST83I	GFTWRST83IU	GFTWRST83IIG	GFTWRST83SNAPI	
	Light Almond	GFTWRST83LA	GFTWRST83LAU	GFTWRST83LAIG	GFTWRST83SNAPLA	
	Red	GFTWRST83R	GFTWRST83RU	GFTWRST83RIG	GFTWRST83SNAPR	
	White	GFTWRST83W	GFTWRST83WU	GFTWRST83WIG	GFTWRST83SNAPW	



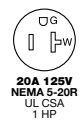
GFWRST15W

Features

- Patented AUTOGUARD® self test technology
- Meets NEC requirements for weather resistance (406.9), UV and corrosion resistance for harsh and damp applications
- Protects against line and load reversal, no power to the face or downstream if device is miswired



Weather Resistant

Rating	Color	Standard	Rating	Standard
 15A 125V NEMA 5-15R UL CSA 0.5 HP	Almond	GFWRST15AL	 20A 125V NEMA 5-20R UL CSA 1 HP	GFWRST20AL
	Black	GFWRST15BK		GFWRST20BK
	Brown	GFWRST15		GFWRST20
	Gray	GFWRST15GY		GFWRST20GY
	Ivory	GFWRST15I		GFWRST20I
	Light Almond	GFWRST15LA		GFWRST20LA
	Red	GFWRST15R		GFWRST20R
	White	GFWRST15W		GFWRST20W

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 GFR 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 Hubbell GFCI receptacles can no longer be produced after June 28, 2015. However, these devices produced prior to June 28th, 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 GFR 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 AUTOGUARD® ground fault receptacles have?

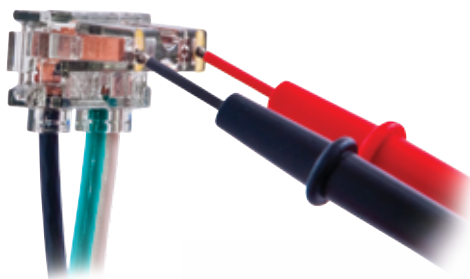
A: Every GFR includes a solid green LED to indicate power to the face, a solid red LED for a tripped condition and a flashing red LED to indicate end of life when the unit should be replaced.

Q: How does the Alarm version function?

A: The Alarm GFR 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.

No Special Tester Required

.085 inch keyhole accepts the probe points found on the most common voltage testers and digital multi-meters



Audible SNAP, indicates solid connection

- Secure, easy grip latch

Inspection of power contacts

- Clear terminal housing
- No exposed metal

Requires minimal box space

- Compact size
- Clean finished look

Installation ease

- Self-grounding staple



SNAP1RA



GFRST20SNAPI

Labor Savings Feature!



Save one Minute!

Rough-in the SNAPConnect® terminal instead of pigtails.



Save Over Three Minutes!

Remove protective packaging and SNAPConnect® device to the circuit.



**Complete Trim-Out
 in Less Than One Minute!**

Secure mounting screws, attach wallplate, job complete.



Typical Applications Include:

Power Generators, Spas, High Pressure Washers, Power Centers, Refineries and Mobile Power.



The sensing module functions interdependently with a magnetic branch circuit breaker. The module monitors the electrical circuit by use of an external differential current transformer. No direct load is present at the module. In the event of a ground fault, the load is interrupted by way of the hydraulic magnetic circuit breaker utilizing a shunt trip coil.

This line of Sensing Modules is rated from 1 to 50 Amps and circuit current-carrying conductors from 1 to 3 poles.

Product is available with an automatic or manual “safe start” reset feature. The enclosure, when mounted with the supplied gasket, achieves a UL NEMA 4X Rating. This module and breaker system is ideal for portable generator integration protecting all outlets on a generator. This system meets the proposed requirements for generators Underwriters Laboratory Standard 2201. UL/cUL 943 Listed, Class A 4-6mA trip level and UL 1053 Compliant.



GFSM120M



GFSMCB120401P

GFCI Sensing Module – 50A Maximum

Description	Catalog Number
120V AC Sensing Module Auto	GFSM120A
120V AC Sensing Module Manual	GFSM120M
240V AC Sensing Module Auto	GFSM240A
240V AC Sensing Module Manual	GFSM240M

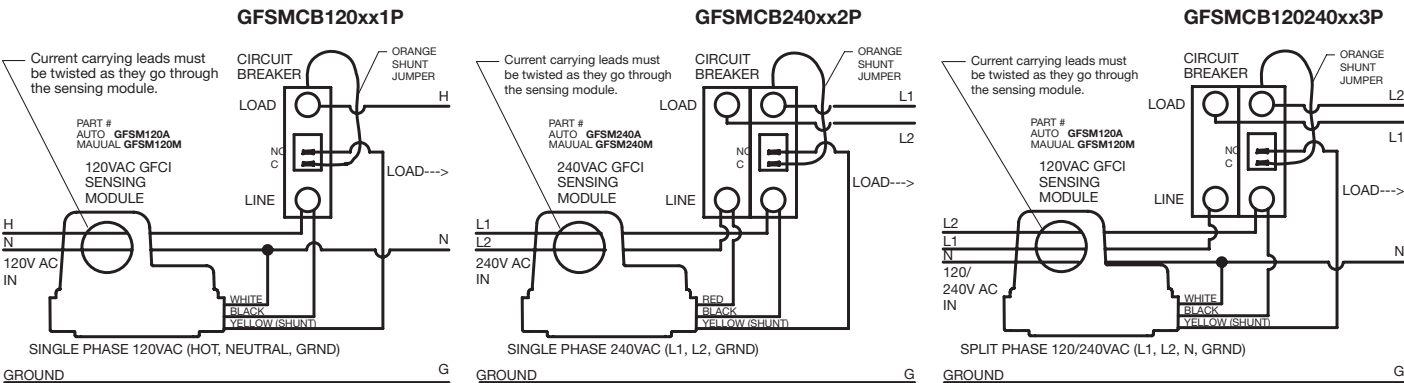
GFCI Sensing Module Circuit Breakers

Catalog Number Configurator

Ground Fault Sensing Module Circuit Breaker	A/C Voltage	Amperage	Number of Poles	Sensing Module Required
GFSMCB	120	1 to 50	1	GFSM120A or M
	120		2	GFSM120A or M
	240		2	GFSM240A or M
	120/240		2	GFSM120A or M
	120/240		3	GFSM120A or M

Example Catalog Numbers: **GFSMCB120401P:** 120V, 40A, 1 Pole
GFSMCB240502P: 240V, 50A, 2 Pole
GFSMCB120240203P: 120/240V, 20A, 3 Pole

Wiring Schematics



Ground Fault Products

Straight Blade Portable GFCI Plugs

15 Ampere, 120 Volts AC, 2 Pole, 3 Wire Grounding



Circuit Guard® Wired On Industrial Portable GFCI Plug

Description	Rating	Catalog Number
GFCI plug, manual set, black.	2 pole, 3 wire grounding, 15A, 125V, NEMA 5-15P.	GFP5266C
GFCI plug, manual set, yellow.	2 pole, 3 wire grounding, 15A, 125V, NEMA 5-15P.	GFP5266CY
GFCI plug with 1 foot line cord, manual set, yellow, with connector body.	2 pole, 3 wire grounding, 15A, 125V, NEMA 5-15P, NEMA 5-15R.	GFP1C

Circuit Guard® Wired On Commercial Portable GFCI Plug

Description	Rating	Catalog Number
GFCI plug, automatic set field wireable, black.	2 pole, 3 wire grounding, 15A, 125V, NEMA 5-15P.	GFP515A
GFCI plug, manual set field wireable, black.	2 pole, 3 wire grounding, 15A, 125V, NEMA 5-15P.	GFP515M



GFP5266CY



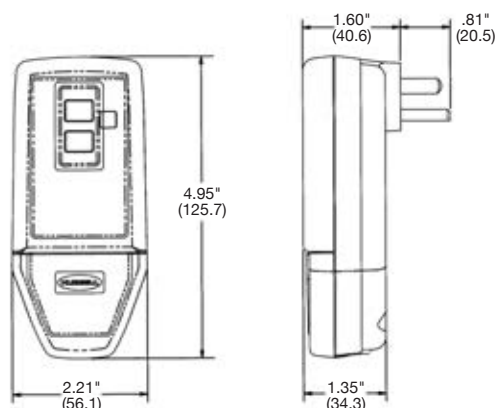
GFP515A

Specifications

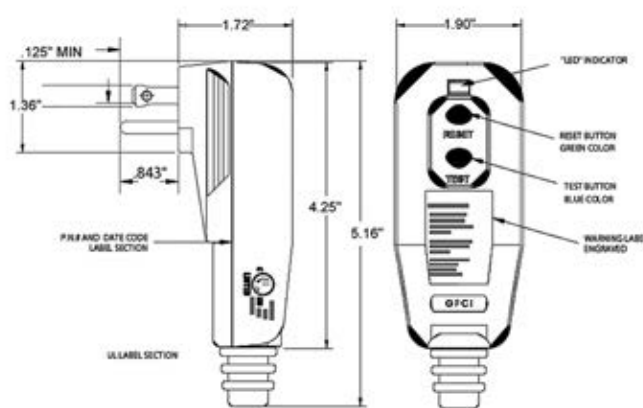
Trip Level	4 to 6 mA.
Trip Time	.025 sec. nominal.
Frequency	60 Hz.
Voltage	120V AC +10% – 15%. Incorporates no voltage release feature.
Amperage	15A.
Maximum Interrupting Capacity	2000A.
Operating Temperature	-35°C to 66°C or -30°F to 150°F.
Maximum Humidity	95%.
Housing	High-impact, UV stabilized material. UL 94V-0 flammability classification.
Input	NEMA 5-15P.
Cord Range	16/3 – 12/3 Type SJ, 18/3 – 12/3 Type S.
Cord Type: Length (GFP1C)	14/3 Type SJTW-A (UL), SJTW (CSA); 1 foot; NEMA 5-15R.
Power "ON" Indication	Indicator light.
Listings	Meets UL943 Class A Listed, CSA Certified.
Codes	Meets all NEC® and CEC requirements.

Dimensions

GFP5266C Series



GFP515 Series





GFP315A

Circuit Guard® Plug-In Portable GFCI

Description	Rating	Catalog Number
Three outlet plug-in.	15A, 120V AC	GFP315A

Specifications

GFP315A		
Trip Level	4 to 6 mA.	
Trip Time	.025 sec. nominal.	
Frequency	60 Hz.	
Voltage	120V AC +10% – 15%. Incorporates no voltage release feature.	
Amperage	15A.	
Maximum Interrupting Capacity	2000A.	
Operating Temperature	-35°C to 66°C or -30°F to 150°F.	
Maximum Humidity	95%.	
Housing	High-impact ABS.	
Input	NEMA 5-15P.	
Output	3 NEMA 5-15R.	
Fault Indication	Indicator light.	
Center Screw	For optional permanent mounting.	
Listings and Standards	Meets UL498 for receptacles, UL943 Class A for GFCIs UL File E41978, CSA Certified.	
Codes	Meets all NEC® and CEC requirements.	

GFCI Tester

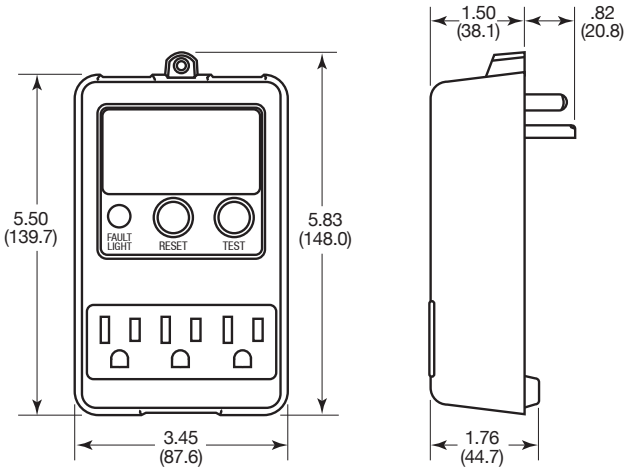
Description	Rating	Catalog Number
Ground fault tester.	120V AC	GFT2G



GFT2G

- Designed to measure the trip level of portable or “wired-in” GFCI’s in a range of 2-7mA. Leakage level can be adjusted from 2-7mA.
- Ideal for measuring leakage level of GFCI breakers, GFCI portables and GFCI receptacles.

Dimensions

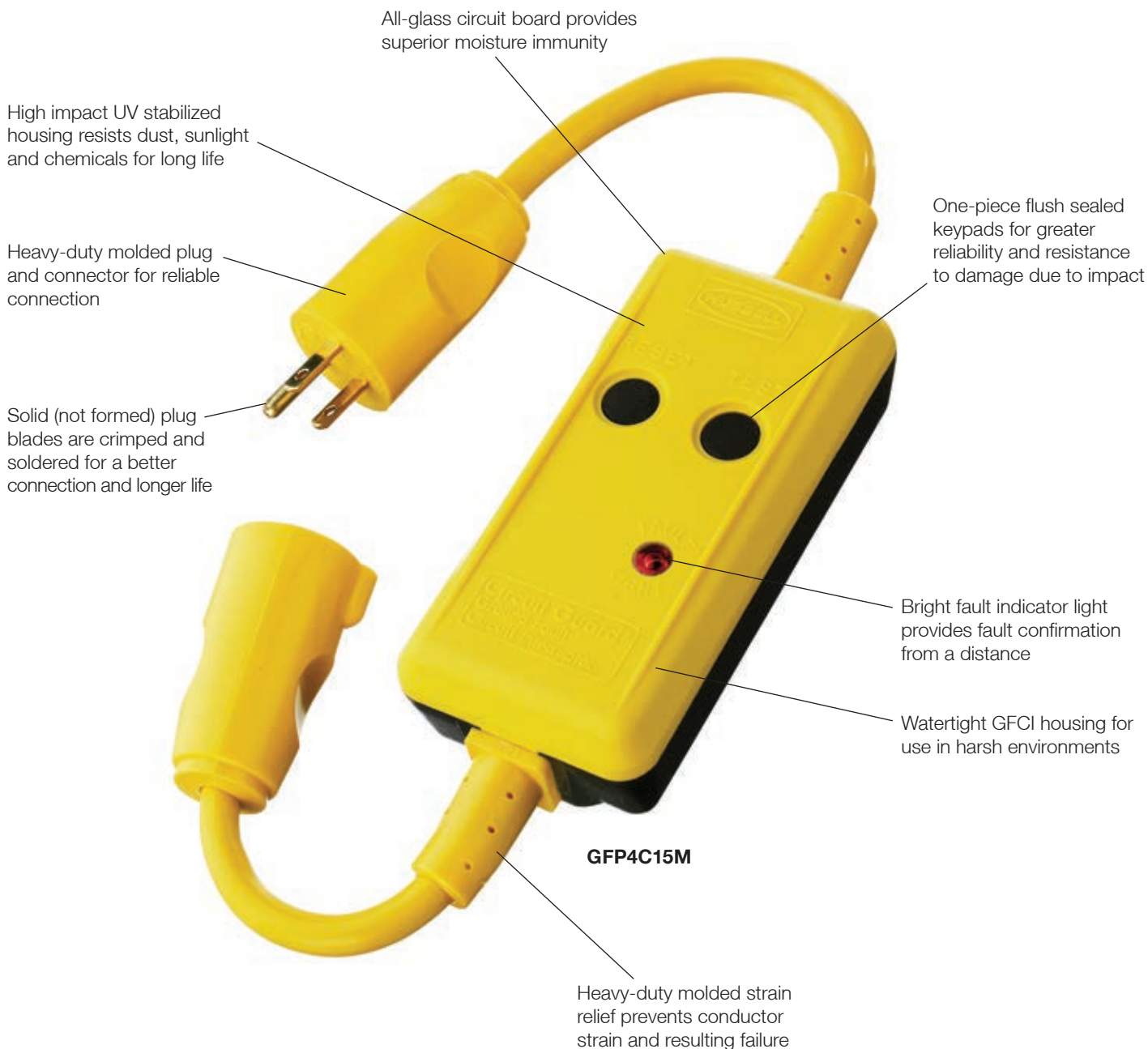




Circuit Guard® Set GFCI Line Cord

Portable GFCI Line Cords provide ground fault protection both indoors and out. They interrupt electrical power for equipment loads when leakage to ground is 4-6 milliamperes. Available in lengths of 18" (45.7 cm), 6' (182.9 cm), and 25' (762 cm). A 15' (457.2 cm) OEM version with stripped leads is also available. They are offered with an Automatic Set or Manual Set feature to meet your application.

Available in Automatic Set with yellow base or Manual Set with black base.





GFP4C15A

**Circuit Guard® Automatic Set
 Portable GFCI Line Cords**

IP21
 SUITABILITY

15A 120V AC

Description	Catalog Number
18" (45.7 cm) GFCI line cord.	GFP4C15A
6' (182.9 cm) GFCI line cord.	GFP6C15A
25' (762.0 cm) GFCI line cord.	GFP25C15A
15' (457.2 cm) GFCI power supply cord with stripped leads.	GFPOEMA*



GFP25C15A

**Circuit Guard® Manual Set
 Portable GFCI Line Cords**

15A 120V AC

20A 120V AC

Description	Catalog Number	
18" (45.7 cm) GFCI line cord.	GFP4C15M	–
3' (91.4 cm) GFCI line cord.	–	GFP3C20M
6' (182.9 cm) GFCI line cord.	GFP6C15M	–
25' (762.0 cm) GFCI line cord.	GFP25C15M	–
15' (457.2 cm) GFCI power supply cord with stripped leads.	GFPOEMM*	–
50' (1524.0 cm) GFCI power supply with Elastogrip® watertight straight blade.	GFP50C15WM	
100' (3048.0 cm) GFCI power supply with Elastogrip® watertight straight blade.	GFP100C15WM	

*Note: *Total length is 15' 4.5" (468.6 cm) including leads: green 4.5" (114.3), black and white 3.5" (88.9). Each pre-stripped .375" (9.5).*



GFP6C15M

**Circuit Guard® Manual Set
 Twist-Lock Portable GFCI Line Cords**

15A 120V AC

20A 120V AC

Description	Catalog Number	
3' (91.4 cm) GFCI line cord.	GFP3C15MTL	GFP3C20MTL

Automatic Set GFCI

Automatically energizes or sets the GFCI for use upon plug in and after the loss of primary power (power failure or unplugging the device). After a ground fault condition, unit must be reset by pushing the reset button. This feature eliminates the need for unit to be reset each time it is plugged in or powered up. Ideal for equipment intended for continuous use where a temporary power failure is likely and undesirable. Examples are pumps, pressure washers, portable signs or lighting and engine heaters.

Manual Set GFCI

Requires the GFCI to be manually set for use by pressing the reset button upon plug in and after loss of primary power (power failure or unplugging the device). Must be manually reset after a ground fault condition. Ideal for applications where operator injury might occur if equipment were to restart after a power failure. Typical equipment includes power drills, saws, lathes and grinders.



GFPOEMM

	Straight Blade	Twist-Lock®
Input	15A NEMA 5-15P, 20A NEMA 5-20P.	15A NEMA L5-15P HBL47CM20C, 20A NEMA L5-20P HBL23CM11.
Output	15A NEMA 5-15R (except GFPOEMM), 20A NEMA 5-20R.	15A NEMA L5-15R HBL47CM29C, 20A NEMA L5-20R HBL23CM13.

Specifications

Portable GFCI Line Cords

Trip Level	4 to 6 mA.
Trip Time	.025 sec. nominal.
Frequency	60 Hz.
Voltage	120V AC +10% – 15%. Incorporates no voltage release feature.
Amperage	15A/20A.
Maximum Interrupting Capacity	2000A.
Operating Temperature	-35°C to 66°C or -30°F to 150°F.
Maximum Humidity	95%.
Housing	High-impact, UV stabilized PVC. UL 94V-0 flammability classification. Meets UL and CSA watertight requirements. Adhesive bonded.
Cord Type	14/3 SJTW-A (UL), SJTW (CSA). Except GFP3C20M, GFP3C15MTL and GFP3C20MTL are 12/3 SJTW.
Visual Fault Indication Light On	Indicates fault.
Listing and Standards	Meets UL943 Class A, UL File E41978, CSA Certified.
Codes	Meets all NEC® and CEC requirements.

NEC® is a registered trademark of the National Fire Protection Association (NFPA).



GFP3C20MTL

Ground Fault Products

Portable GFCI Line Cords

Commercial Grade, Automatic and Manual Set



Circuit Guard® Portable GFCI Single Outlet - 12/3 SJEOW

15A 120V AC

Description	Catalog Number
2' (60.9 cm) GFCI line cord, automatic set.	GFP2CA
2' (60.9 cm) GFCI line cord, manual set.	GFP2CM
25' (762.0 cm) GFCI line cord, automatic set.	GFP25CA
25' (762.0 cm) GFCI line cord, manual set.	GFP25CM

Circuit Guard® Portable GFCI Triple Tap Outlet - 12/3 SJEOW

15A 120V AC

Description	Catalog Number
2' (60.9 cm) GFCI line cord, automatic set.	GFP2TTA
2' (60.9 cm) GFCI line cord, manual set.	GFP2TTM
25' (762.0 cm) GFCI line cord, automatic set.	GFP25TTA
25' (762.0 cm) GFCI line cord, manual set.	GFP25TTM

Circuit Guard® OEM Equipment Integrated Cord Sets - 14/3 SJEOW

15A 120V AC

Description	Catalog Number
15' (457.2 cm) GFCI with flying leads, automatic set.	GFP15LA
15' (457.2 cm) GFCI with flying leads, manual set.	GFP15LM
35' (1066.8 cm) GFCI with flying leads, automatic set.	GFP35LA
35' (1066.8 cm) GFCI with flying leads, manual set.	GFP35LM

15A GFCI In Line GFCI, Single and Triple Tap - 12/3 SJTW

15A 120V AC

Description	Catalog Number
2' (60.9 cm), 5-15 single tap, automatic set.	GFPI15125A
2' (60.9 cm), 5-15 single tap, manual set.	GFPI15125M
2' (60.9 cm), 5-15 triple tap, automatic set.	GFPI15125TRIA
2' (60.9 cm), 5-15 triple tap, manual set.	GFPI15125TRIM

20A GFCI In Line GFCI, Locking - 12/3 SJTW

20A 120V AC

Description	Catalog Number
2' (60.9 cm), L5-20 locking, automatic set.	GFPI15125LKA
2' (60.9 cm), L5-20 locking, manual set.	GFPI15125LKM

20A GFCI In Line GFCI, Locking - 12/3 SJTW

20A 250V AC

Description	Catalog Number
2' (60.9 cm), L6-20 locking, automatic set.	GFPI15125LKA
2' (60.9 cm), L6-20 locking, manual set.	GFPI15125LKM

Specifications

Portable GFCI Line Cords

Trip Level	4 to 6 mA.
Trip Time	.025 sec. nominal.
Frequency	60 Hz.
Voltage	120/250V AC +10% - 15%. Incorporates no voltage release feature.
Amperage	15A/20A.
Maximum Interrupting Capacity	2000A.
Operating Temperature	-35°C to 66°C or -30°F to 150°F.
Maximum Humidity	95%.
Housing	High-impact, UV stabilized PVC. UL 94V-0 flammability classification. Meets UL and CSA watertight requirements. Adhesive bonded.
Visual Fault Indication Light On	Indicates fault.
Listing and Standards	Meets UL943 Class A, UL File E41978, CSA Certified.
Codes	Meets all NEC® and CEC requirements.



GFP2CA



GFP2TTA



GFP15LA



GFPI15125TRIM



GFPI15125LKA



GFPI15125LKM

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GFP15M

IP21
 SUITABILITY

Multiple Outlet Portable GFCI

Description	Rating	Receptacles	Plug	Catalog Number
4 outlet, manual set, yellow.	15A, 120V AC	(2) Duplex 5-15R	NEMA 5-15P	GFP15M
4 outlet, manual set, yellow.	20A, 120V AC	(2) Duplex 5-20R	NEMA 5-20P	GFP20M



GFM20

GFCI Module - UL Type 3R Rated

Description	Rating	Catalog Number
GFCI module, manual set, yellow.	20A, 120V AC, 60 Hz	GFM20
GFCI module, auto set, yellow.	20A, 120V AC, 60 Hz	GFM20A

Specifications

	GFP15M / GFP20M	GFM20 / GFM20A
Trip Level	4 to 6 mA.	4 to 6 mA.
Trip Time	.025 sec. nominal.	.025 sec. nominal.
Frequency	60 Hz.	60 Hz.
Voltage	120V AC +10% - 15%.	120V AC +10% - 15%.
	No voltage release feature.	No voltage release feature.
Maximum Interrupting Capacity	5000A.	5000A.
Current	15A / 20A.	20A / 20A Feed-through.
Operating Temperature	-35°C to 66°C or -30°F to 150°F.	-35°C to 66°C or -30°F to 150°F.
Housing Rating	High-impact, yellow Valox® with protective lift covers.	High-impact, UV stabilized, rigid PVC. UL 94V-0 flammability classification. UL Type 3R Rated.
Input	5-15P, 15A / 5-20P, 20A. IP21 Suitability.	#12 AWG stranded conductors (black/white/green).
Output	5-15R(4), 15A / 5-20R(4), 20A.	#12 AWG stranded conductors (red/gray).
Power Supply Cord	6' (182.9 cm) STOW-A (STW FT2 CSA).	N/A.
Mounting Screws	N/A.	Self-tapping, combination, #6-32.
Power "ON" Indication	LED indicator light.	LED indicator light.
Agency Approvals	UL Listed, UL498 for receptacles. Meets UL943 Class A for GFCI's.	UL Listed, CSA Certified. Meets UL943 Class A for GFCI's.
Codes	Meets all NEC® and CEC requirements.	Meets all NEC® and CEC requirements.

Ground Fault Products

Hard Wired 30 Ampere GFCI - NEMA 4X

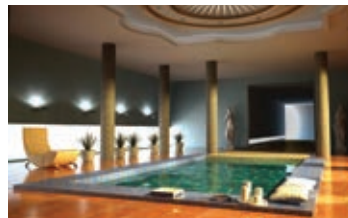


Applications

Power Generators
Submersible Pumps
Textile

Agricultural Equipment
Cement Cutting Equipment
Food Processing

Production Assembly Equipment
Spa and Hot Tubs
Vending Equipment



Circuit Guard® Hard Wired 30A GFCI - UL Type 4X Rated

Description	Voltage	Alarm	Manual Set	Automatic Set
Hard wired, manual set and automatic set GFCIs.	120V AC	None	GFHW13005	GFHW13105
	120V AC	Audible	GFHW13015	GFHW13115
	240V AC	None	GFHW23005	GFHW23105
	240V AC	Audible	GFHW23015	GFHW23115
	120/240V AC	Audible	GFHW33015	GFHW33115
	3Ø 250V AC	None	GFHW530	GFHW531
	3Ø 120/208V AC	None	GFHW430	GFHW431

Note: All units above are stock items.

Specifications

Electrical Ratings	
Rated Voltage	120V AC, 240V AC and 120/240V, 3Ø 250V AC, 3Ø 120/208V AC.
Operating Voltage Range	85% to 110%.
Current	Up to 30A or device rating.
Frequency	60 Hz.
Trip Level	4-6 mA.
Phase	Single.
Response Time	.025 sec. Max.
Dielectric Withstand	1500 VRMS across contact, 4000 VRMS between conductors and enclosure.
Surge Withstand	6000V impulse, 0.5 microseconds rise time 100kHz ringing frequency with 40% decay per cycle.
Let Go Line Voltage	60% of rated.
Grounded Neutral Detection	6 Ohms or less.
Power Up	Manual or automatic reset.
Environmental Ratings	
Housing Rating	UL Type 4X.
Construction	Industrial grade design.
Type	Class A GFCI.
Operating Temperature	-35°C to 66°C, -30°F to 150°F.
Leakage Current @ 93% Humidity	Zero.
Features	
Life (Endurance)	10,000 cycles (6000 with load and 4000 without load).
Grounded Neutral Protection	Open neutral protection Trips upon loss of neutral.
Power On Indicator	Trips if ground and neutral touch at load side.
Power Off Indicator	Green light on.
Wiring Application	Red blinking light plus optional audible alarm.
	3 Wire Single Phase (Hot, Neutral and Ground),
	4 Wire Single Phase (Line 1, Line 2, Neutral and Ground).
Switch Interface	Double Insulated.
Latching Mechanism	Electromagnetic.
Physical Specifications	
Wire Leads	#10 AWG, 24" long.
Unit Color	Gray with black cover.
Label Color on Portable and Hard Wired Units	Automatic reset: yellow background with black lettering.
Weight	Manual reset: black background with yellow lettering.
	1.40 lbs.

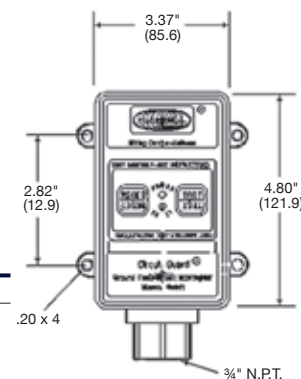
Related Code

Confined Space	OSHA 29 CFR 1926.404 (b) (1) (ii)
	OSHA 29 CFR 1926.405 (a) (2) (ii) (G)
Construction Sites	NEC 590.6
Commercial Garages	NEC 511.12
Fountains	NEC 680.5B
Spas and Hot Tubs	NEC 680.40
Marinas	NEC 555.3

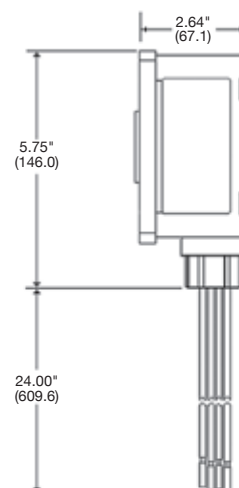
Automatic Reset GFCI



Manual Reset GFCI



Dimensional Drawing



Side View

Dimensions in Inches (mm)



Applications

Pressure Washers
De-icing Equipment
Pipeline Heaters

Portable Electric Heaters
Material Dryers
Automotive Garages

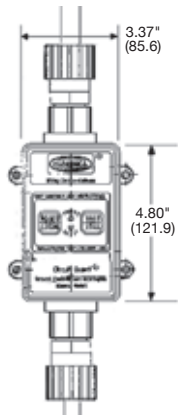
Portable Power Tools
Submersible Pumps
Outdoor Signage



GFP1311



GFPIL30250LKM



Dimensional Drawing

Circuit Guard® Portable 30A GFCI - UL Type 4X Rated

Description	Cord Length	Voltage	Manual Set	Automatic Set
Portable, manual set and automatic set GFCIs.	2' (60.9 cm)	120V AC	GFP1301	GFP1311
	6' (182.9 cm)	120V AC	GFP1305	GFP1315
	25' (762.0 cm)	120V AC	GFP1302	GFP1312
	50' (1524.0 cm)	120V AC	GFP1303	GFP1313
	2' (60.9 cm)	240V AC	GFP2301	GFP2311
	25' (762.0 cm)	240V AC	GFP2302	GFP2312
	6' (182.9 cm)	120/240V AC	GFP3305	GFP3315
	6' (182.9 cm)	3Ø 250V AC	GFP5305	GFP5315
	6' (182.9 cm)	3Ø 120/208V AC	GFP4305	GFP4315

Note: All units above are stock items.

Circuit Guard® 30A GFCI In Line GFCI - Locking

Description	Cord Length	Voltage	Manual Set	Automatic Set
L5-30 locking.	2' (60.9 cm)	120V AC	GFPIL30125LKM	GFPIL30125LKA
L6-30 locking.	2' (60.9 cm)	250V AC	GFPIL30250LKM	GFPIL30250LKA

Plug and Connector Selector Chart (partial listing)

The chart below is a list of possible Hubbell plug and connector body products that can be used with the Hubbell Portable GFCIs.

Family	Style	Amps	Voltage	Hubbell Catalog Number
Insulgrip®	Straight Blade	15	120V AC	HBL5266C & HBL5269C
Insulgrip®	Twist-Lock®	30	240V AC	HBL2621 & HBL2623
Watertight Safety-Shroud®	Twist-Lock®	30	240V AC	HBL2621SW & HBL2623SW
IEC Pin & Sleeve	Watertight Pin & Sleeve	30	240V AC	HBL330P6W & HBL330C6W
Insulgrip® Pin & Sleeve	Insulgrip® Pin & Sleeve	30	240V AC	HBL330PS2W & HBL330CS2W
Hubbellock®	Hubbellock®	20	120V AC	HBL23035B & HBL23032B

Specifications

Electrical Ratings

Rated Voltage	120V AC, 240V AC, 120/240V AC, 3Ø 250V AC, 3Ø 120/208V AC.
Operating Voltage Range	85% to 110%.
Current	Up to 30A or device rating.
Frequency	60 Hz.
Trip Level	4-6 mA.
Response Time	25 ms Max.
Dielectric Withstand	1500 VRMS across contact, 4000 VRMS between conductors and enclosure.
Surge Withstand	6000V impulse, 0.5 microseconds rise time 100kHz ringing frequency with 40% decay per cycle.
Let Go Line Voltage	60% of rated.
Power Up	Manual or Automatic reset.

Environmental Ratings

Housing Rating	UL Type 4X.
Construction	Industrial grade design.
Type	Meets UL943 Class A GFCI.
Operating Temperature	-35°C to 66°C, -30°F to 150°F.
Leakage Current @ 93% Humidity	Zero.

Features

Life (Endurance)	10,000 cycles (6000 with load and 4000 without load).
Open Neutral Protection	Trips upon loss of neutral.
Grounded Neutral Protection	Trips if ground and neutral touch at load side.
Power On Indicator	Green light on.
Power Off Indicator	Red blinking light plus optional audible alarm.
Wiring Application	3 Wire Single Phase (Hot, Neutral and Ground).
	4 Wire Single Phase (Line 1, Line 2, Neutral and Ground).
Switch interface	Double Insulated.
Latching Mechanism	Electromagnetic.

Physical Specifications

Cord Type	2-50', 10/3 SJGOOW. 100', 8/3 SEOW.
Unit Color	Gray with black cover.
Label Color on Portable and Hard Wired Units	Automatic reset: Yellow background with black lettering. Manual reset: Black background with yellow lettering.
Weight	2 ft. 1.8 lbs., 6 ft. 2.7 lbs., 25 ft. 6.8 lbs., 50 ft. 12.4 lbs., 100 ft. 23.3 lbs.

Related Code

Confined Space	OSHA 29 CFR 1926.404 (b) (1) (ii) OSHA 29 CFR 1926.405 (a) (2) (ii) (G)
Construction Sites	NEC 590.6
Commercial Garages	NEC 511.12
Outdoor Signs	NEC 600.10
Spas and Hot Tubs	NEC 680.40
Boat Yards	NEC 555.3

Dimensions in Inches (mm)