



GE VERNOVA

UR Family

IP54 Enhanced Front Panel

Product Notification

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This document introduces the updated Enhanced Front Panel with an IP54 rating for the GE Universal Relay (UR) family of products. IP54 is an international standard that indicates enclosure effectiveness of a device, where the first digit “5” indicates some protection against dust and the second digit “4” indicates protection against water splash/spray.

Products – B30, B90, C30, C60, C70, D30, D60, F35, F60, G30, G60, L30, L60, L90, M60, N60, T35, T60

Introduction

The UR family is offered with the following three front panel options:

- Basic Front Panel (pushbuttons optional) – Ordered by customers using legacy URs
- Enhanced Front Panel (pushbuttons optional) – Most popular UR front panel
- Graphical Front Panel (pushbuttons included) – New in 2017 and ideal for customers needing a graphical user interface and control, annunciation, and/or single-device applications

The Enhanced Front Panel has been redesigned to become the IP54 Front Panel. The IP54 Front Panel is backwards-compatible and supports the same functionality as the existing Enhanced Front panel.

Additional benefits delivered by the IP54 Front Panel are as follows:

- Better enclosure degree – Delivers IP40 enclosure rating by itself and IP54 rating when installed with the UR IP54 collar accessory
- Better locking mechanism – The thumb screw is replaced with a flat screw, which has longer life expectancy under heavy use
- Hinge compatibility – Hinges are the same as for the Graphical Front Panel. This compatibility facilitates future front panel upgrades.
- Improved ergonomics – Configurable pushbuttons are now soft-material, which also prevents finger impression marks
- Mounting flexibility – The top and bottom lips are now optional, allowing stacked relays when mounting in 19-inch racks

The redesigned version of the Enhanced Front Panel is designated as the IP54 Front Panel, or Enhanced Front Panel Rev. 2. It can conform to an IP54 rating with the IP54 mounting collar purchased separately.

Figure 1: UR Enhanced Front Panel Rev. 1



Figure 2: UR IP54 Front Panel (Enhanced Front Panel Rev. 2)



Figure 3: UR IP54 Front Panel (Enhanced Front Panel Rev. 2) with mounting collar



Figure 4: UR IP54 mounting collar schematic

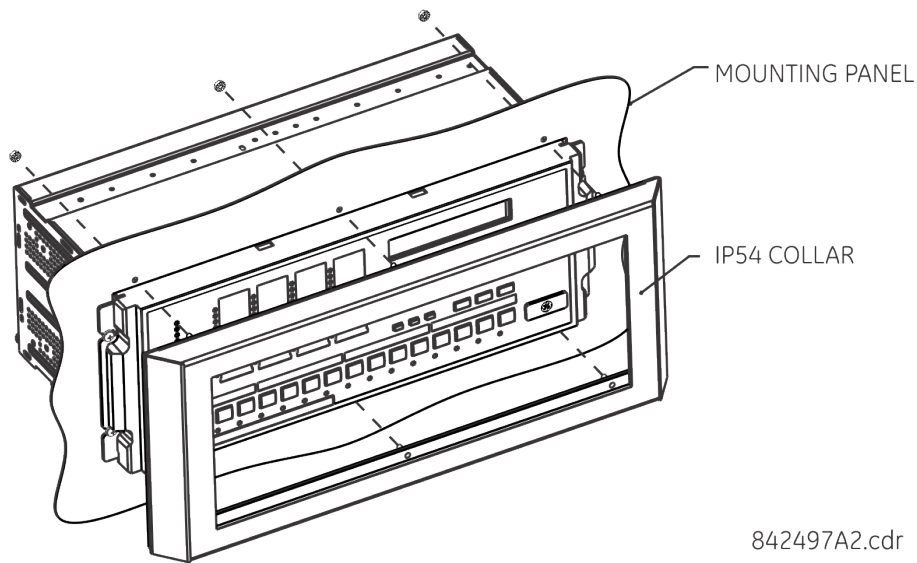
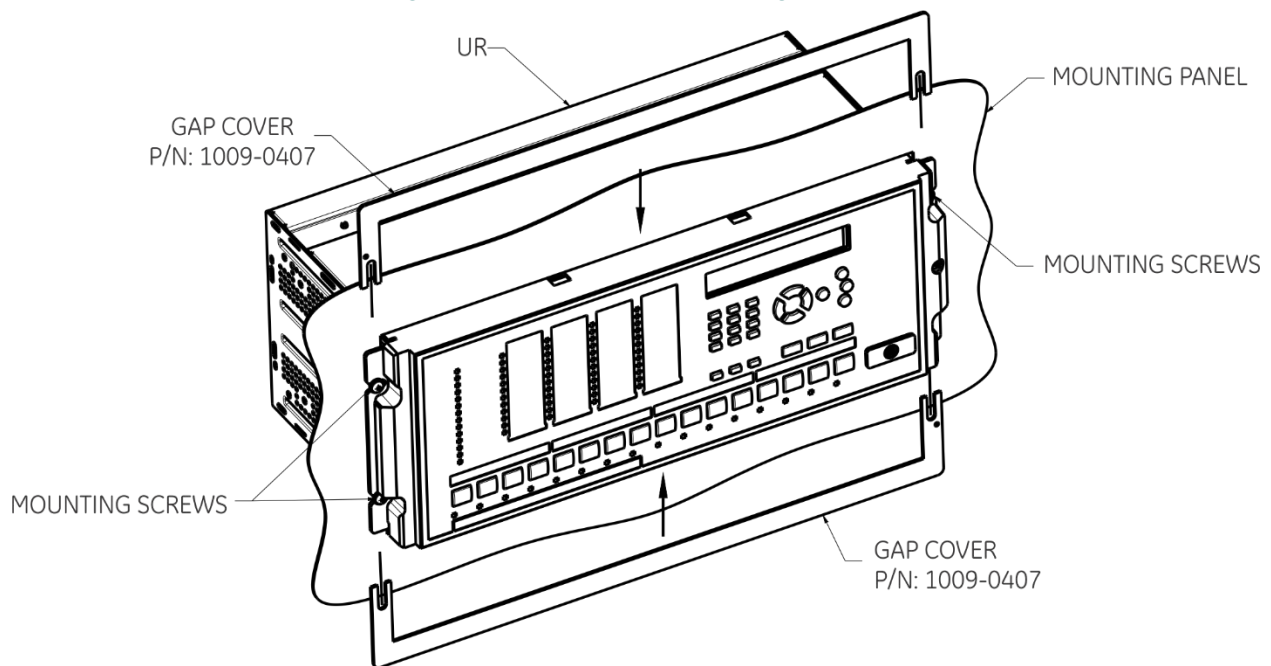


Figure 5: UR IP54 front panel with gap fillers



GAP COVER INSTALLATION STEPS:

1. UNFASTEN 4 UNIT MOUNTING SCREWS TO HALF WAY
2. PULL OUT UNIT A LITTLE BIT TO GENERATE SPACE BETWEEN MOUNTING PANEL AND MOUNTING BRACKET
3. INSERT ONE GAP COVER FROM TOP OF UNIT TO THE SPACE BETWEEN MOUNTING PANEL AND MOUNTING BRACKET, MAKE SURE THERE IS NO GAP BETWEEN GAP COVER AND FRONT PANEL, AND THE SCREWS ARE IN SLOTS OF GAP COVER
4. INSERT ANOTHER GAP COVER FROM BOTTOM OF UNIT SAME AS THE TOP COVER, HOLD THE COVER TO MAKE SURE THERE IS NO GAP BETWEEN GAP COVER AND FRONT PANEL, AND THE SCREWS ARE IN SLOTS OF GAP COVER
5. TIGHTEN UP 4 MOUNTING SCREWS TO REACH THE REQUEST TORQUE

The IP54 Front Panel does not come with top and bottom lips that the Enhanced Front Panel had. Instead, a new "gap filler," or gap cover, accessory is available for customers who install URs in panel

doors. The Gap Filler accessory covers the gap between the UR chassis and the panel door.

Compatibility

All UR products support the IP54 Front Panel. The front panel is available for horizontal units, not vertical units.

The IP54 Front Panel is replacing the Enhanced Front Panel to become the standard offering. Optional pushbuttons still are available.

Customers who want to upgrade their existing relays to the IP54 Front Panel must replace mounting brackets on both sides of the relay. These side brackets are supplied as part of the “IP54 Front Panel Kit.”

The IP54 mounting collar can be used in panel-mount installations, not 19-inch rack-mount installations. The IP54 mounting collar cannot be used with Rev. 1 Enhanced Front Panels or with vertical-mount relays.

Customers who are looking for spares of the Enhanced Front Panel can order the IP54 Front Panel, as these two are completely compatible.

The 1009-0707 part number includes the 1009-0407 gap filler parts, accessories, and packaging.

Table 1: Migrating to IP54 Front Panel

From	To	What is needed	Notes
Basic Front Panel	IP54 Front Panel	IP54 Front Panel Kit + IP54 Gap Filler Order code example B3P-5KAL + 1009-0707	Gap Filler can be needed for panel mounting. Gap Filler not needed for rack mounting.
Enhanced Front Panel	IP54 Front Panel	IP54 Front Panel Kit + IP54 Gap Filler Order code example B3P-5KAK + 1009-0707	Gap Filler can be needed for panel mounting. Gap Filler not needed for rack mounting.
Basic Front Panel	IP54 rated Front Panel	IP54 Front Panel Kit + IP54 Collar accessory Order code example B3P-5KAL + 1920-0794	IP54 rated means that front panel complies with IP54 enclosure degree
Enhanced Front Panel	IP54 rated Front Panel	IP54 Front Panel Kit + IP54 Collar accessory Order code example B3P-5KAK + 1920-0794	IP54 rated means that front panel complies with IP54 enclosure degree
IP54 Front Panel	IP54 rated Front Panel	IP54 Collar accessory Order code example 1920-0794	IP54 rated means that front panel complies with IP54 enclosure degree
IP54 Front Panel	IP54 Front Panel replacement	IP54 Front Panel Order code example B3P-5KA	
	New relay with Gap Filler	Relay order code with MOD015 added	May apply to customers ordering URs and mounting

From	To	What is needed	Notes
			them on panels. Customers mounting URs on 19-inch rack do not need this MOD.

Order codes

As of March 2020, all UR relays except C30 ship with the IP54 front panel by default. The C30 is the only device shipping with the Enhanced Front Panel.

When ordering supplies or accessories, note that the UR Horizontal-Enhanced Front Panel Mounting Kit (1834-0004) and UR Vertical-Enhanced Front Panel Mounting Kit (1834-0005) are for Rev. 1 of the front panel, not the IP54 version.

Relays

Since the IP54 Front Panel replaces the Enhanced Front Panel, there is no order code difference between the two. However, note the following:

- B90, C30, L60, N60 – These UR devices can have the Enhanced Front Panel. If the IP54 Front Panel is required prior to February 2020, add MOD054 to the order code, for example
N60-U03-HKH-F8L-H6L-Mxx-Pxx-Uxx-Wxx **MOD054**

MOD054 increases product lead time by five business days.

- B90, L60, N60 – As of March 2020, the order code digit that today represents the Enhanced Front Panel does not change. However, the description that today reads “Enhanced Front Panel” is replaced with “IP54 Front Panel.”
- For other relays (B30, C60, C70, D30, D60, F35, F60, G30, G60, L30, L90, M60, T35, T60) – Starting in October 2018, the IP54 Front Panel takes over the Enhanced Front Panel
- Add MOD015 at the end of any UR order code for Gap Fillers to be shipped together with the relay (within the same box). For example
F60-U03-HKH-F8L-H6L-Mxx-Pxx-Uxx-Wxx **MOD015**

IP54 Front Panel Kit

Use this kit to retrofit existing URs to the IP54 Front Panel. The kit includes an IP54 Front Panel, UR side brackets, nuts, and bolts.

There are two options of the kit, as follows:

- “K” option provides compatibility with a UR chassis where an Enhanced Front Panel was previously installed. Use this to replace an Enhanced Front Panel.
- “L” option provides compatibility with a UR chassis where a Basic Front Panel was previously installed. Use this to replace a Basic Front Panel.

Order code example – B3P-5KAK or B3P-5KAL

This order code is the same as individual IP54 Front Panels with an extra digit. The last digit “K” or “L” of the order code indicates that this is a kit, not just a front panel.

The kit excludes the IP54 Collar and IP54 Gap Filler.

IP54 Collar accessory

Use the collar to retrofit an existing IP54 Front Panel to the IP54 rating. Customers who order URs with an IP54 Front Panel must also order this collar accessory as a separate item in order to reach IP54 rating. The accessory kit includes an IP54 mounting collar/frame, nuts, and bolts.

Order code – **1920-0794**

IP54 Front Panel

Use this panel to replace an existing IP54 Front Panel. It has a new order code.

Order code example – B3P-**5**KA

The bolded digit indicates IP54 Front Panel.

The previous order code was B3P-**3**KA. The previous order code is no longer available.

IP54 Gap Filler accessory

This Gap Filler accessory can be needed when mounting a UR on a panel. It covers the gap between the relay chassis and the panel.

The previous Enhanced Front Panel was equipped with a lid that covered the gap. However, the IP54 front panel is not equipped with it, to allow stacking UR devices when mounted on a 19-inch rack.

The Gap Filler accessory includes two pieces, these being top and bottom fillers. An individual gap filler part number is 1009-0407, but the filler is ordered using order code 1009-0707, which also includes accessories and packaging.

Order code – **1009-0707**

For further assistance

For product support, contact the information and call center as follows:

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