HOW TO INSTALL THE GRIT PRESENCE TRIGGER

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PRODUCT OVERVIEW

The GRIT Presence Trigger uses 24GHz mmWave radar to report whether someone is at a workstation, including someone standing still. A GRIT Hub uses that state to operate the equipment assigned to the sensor. Detection range is configurable up to 6 m. Use Hub Pro for GRIT Track access-control workflows and multi-zone systems.



WHAT'S INCLUDED

1. GRIT Presence Trigger, GA-TR8000.

2. Adjustable magnetic mount.

3. 20 ft USB-C power cable.

4. 120V wall power adapter.

SPECIFICATIONS

Specification	Value
Product	GA-TR8000 Presence Trigger
Detection	24GHz mmWave radar
Range	Configurable up to 6 m
Device power rating	5V-24V DC; use the included cable and wall adapter for this installation
Mounting	Included adjustable magnetic mount
Connectivity	GRIT mesh to a GRIT Hub
Status	RGB indicator; check the device state in the app

BEFORE YOU BEGIN

Install the Hub first. Identify the workstation footprint and which collector, gates or access workflow should respond to presence. Use the supplied adapter and cable; this procedure does not require wiring a separate DC supply.

Choose a mounting position with a clear view of the work area. Keep the sensor away from metal that blocks its view, and keep its cable clear of moving equipment, hot surfaces and walkways. The Presence Trigger is an automation input, not a replacement for machine guarding or a safety-rated presence device.

STEP 1: MOUNT AND POWER THE TRIGGER

1. Attach the adjustable magnetic mount to a suitable stable surface near the workstation.

2. Aim the sensor at the intended work area. Leave adjustment room so you can reduce pickup from neighboring stations.

3. Connect the included 20 ft USB-C cable between the Trigger and its wall adapter, then plug the adapter into a compatible 120V outlet.

4. Route and secure the cable without pinching it or placing strain on the connector.

STEP 2: BIND TO THE HUB

1. In the GRIT App, open **Admin > Settings > Allow New Devices** and select **Yes**, or use the center blue Bind button on the Hub.

2. With the Trigger powered, find the new device under **Devices > Presence Sensor**.

3. Open its record and enter a name that identifies the workstation. Check that the device is online before configuring it.

STEP 3: SET THE DETECTION AREA AND LINKED EQUIPMENT

Open **Configure Radar** from the Presence Sensor page. Set the coverage area around the station, within the configurable range of up to 6 m. Walk the intended area, stand still at the work position, and walk along adjacent aisles to check the result. Adjust coverage and the available radar tuning controls until detection matches the intended area.

App labels below are from the documentation baseline, Hub v1.1.1089. Newer Hub versions can use different labels or offer additional controls.

App configuration

Setting	Purpose
Presence Sensor Name	Identify the station in the device list and reports.
Configure Radar	Set coverage zones and inspect the live detection response.
Detection Mode	Choose Trigger Mode for linked automation, or RFiD Logout for the supported reader workflow.
Activation Delay	In Trigger Mode, require sustained presence before linked equipment turns on.
Deactivation Delay	In Trigger Mode, set the delay after the area becomes vacant before equipment turns off.
Associated Collector	Select the collector that should respond to presence.
Associated Gates	Select the gates assigned to this work area.
Associated Air Quality Devices	Select supported linked air-quality devices where this control is available.
Associated RFiD Reader	In RFiD Logout mode, select the reader whose session depends on presence.
Zone Exit Delay	Set the supported reader's logout delay after the area becomes vacant.

Linking a Solenoid Control or other device also requires its matching Hub workflow. Check the device's installation guide and confirm the intended association rather than assuming nearby devices are linked automatically.

STEP 4: TEST THE INSTALLATION

1. Leave the area vacant and check the sensor state in the app.

2. Enter the station. Confirm presence is detected and only the intended collector, gates or other linked equipment respond.

3. Remain still at the normal work position and check that detection remains appropriate.

4. Leave the station. Check that equipment returns to its intended state after the configured delay.

5. Walk through neighboring aisles and stations. Adjust coverage if they trigger this station.

6. If using RFiD access control, test the reader association and zone-exit behavior separately.

TROUBLESHOOTING

Symptom	Check
No power indication	Check the wall outlet, included adapter and both ends of the USB-C cable.
Device does not appear	Enable new-device binding on the intended Hub and check that the Trigger is powered and within GRIT mesh reach.
Adjacent traffic triggers the station	Re-aim the mount, reduce coverage and review the available sensitivity controls.
Correct detection but no equipment response	Check Detection Mode, device associations and configured activation/deactivation delays.
A still operator is not detected reliably	Check sensor aim, metal obstructions and the detection area at the normal working position.

REVISION HISTORY

Revision	Date	Change
1.0	October 2026	Installation guide aligned with the documented 6 m range and supplied mount, cable and adapter.

Questions? Email support@gritautomation.com.