User's manual	Manual del usuario	Manuel de l'utilisateur
Customer Service US: 1-800-645-2986	Servicio de atención al Cliente US: 1-800-645-2986	Service à la clientèle Canada: 888-645-2986

Automatic Sensor Retrofit Kit w/ Mechanical Override for Toilet/Urinal



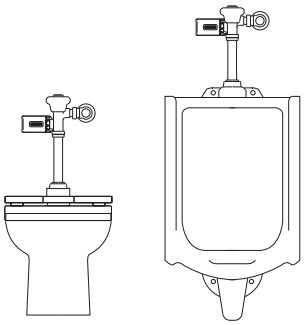
Model 270314

Read this manual thoroughly prior to installation, operation or maintenance. Keep this instruction in a safe location for future reference. For question or service, visit www.globalindustrial.com or contact Customer Service at 1-800-645-2986.

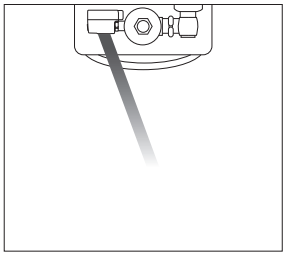
DESCRIPTION

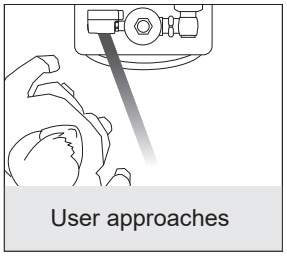
Global Industrial Sensor Flush is a battery-powered automatic flush activator designed for retrofitting handle-operated urinal or water closet flush valve to provide a hands-free hygienic user experience. In addition to touch-less infrared sensor activation, a true mechanical override button allows on-demand manual flushing. Chrome plated metal cover with proven gear-driven actuator ensures reliable operation and longevity with most existing flush valves.

- True mechanical override button enables on-demand manual flushing
- Infrared sensing activation delivers a touch-free hygienic environment
- Gear-driven mechanical actuator ensures longer lifespan than solenoid
- Tool-less self-purge setting and automatic sensor range calibration
- Side-mount design allows quick installation within just a few minutes
- Self-purge helps minimize stagnation and maintain fixture trap seals
- Low power with Super Saving mode deliver exceptional battery lifetime

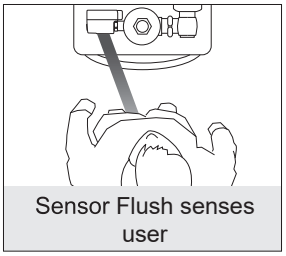


APPLICATION

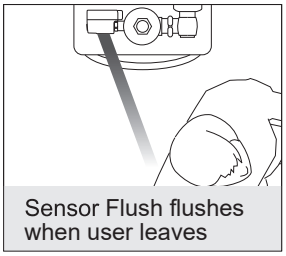




User approaches



Sensor Flush senses user



Sensor Flush flushes when user leaves

SPECIFICATIONS

Sensor Range	12” to 60” adjustable
Power Type	4 x size C battery
Water Pressure	25 psi (Running), max. 80 psi (Static)
24-hour Auto-purge	Enabled (factory default)
Operating Temperature	14°F to 104°F (-10°C to 40°C)

PRIOR TO INSTALLATION

Before installing the Sensor Flush, ensure the items listed below are installed ready on-site;

- Urinal or water closet flush fixture
- Fixture carrier
- Drain line
- Water supply

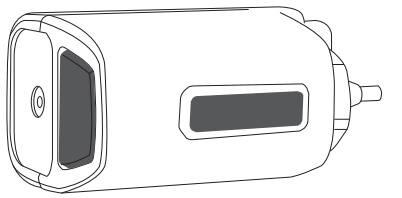
IMPORTANT SAFETY INFORMATION

- All plumbing should be installed in accordance with applicable codes and regulations.
- Water supply lines must be sized to provide an adequate volume of water for each fixture.
- Sensor units should NOT be located across from each other or close to highly reflective surfaces.
- In the event of valve failure, fixture must be able to handle a continuous flow.

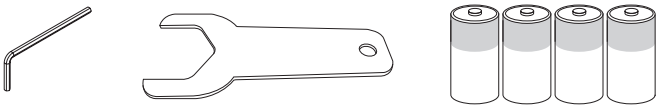
Automatic Sensor Retrofit Kit w/ Mechanical Override

PACKAGE CONTENTS

Sensor Flush



Valve Gasket

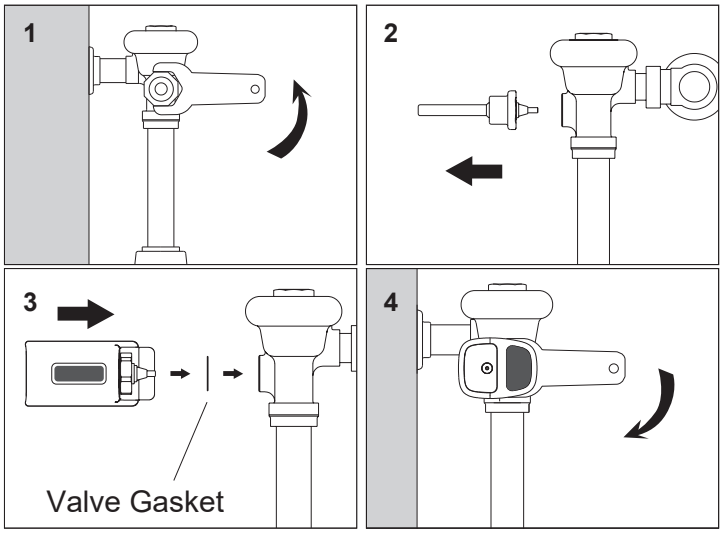


Hex Wrench Wrench Battery (C size)

RETROFIT INSTALLATION

1. Shut off water supply at stop.
2. Use the supplied wrench to loosen handle nut.
3. Remove handle nut and gasket from flush valve.
   NOTE: A small amount of water may drip from the port.
4. Place the supplied gasket into collar nut and attach the Sensor Flush to the port as shown. Rotate the nut to the threads of valve body.
5. Use the supplied wrench to tighten the nut with the valve body securely.
6. Turn on water supply at stop.

   NOTE: Save the handle in the event you wish to reuse for service of Sensor Flush.



OPERATION

After installing the Sensor Flush, use the supplied hex wrench to remove battery compartment. Load the batteries into the tray with correct polarity as shown. Reinstall the battery compartment and tighten the screw.

Once the battery compartment is secured in place, the LED will light for 2 seconds and flush once. Then the unit will start detecting user presence. The LED behind the lens will blink (once per second) when sensor detects user presence and flush in 2 seconds after user leaves.

NOTE: Ensure the lens is clean and no object within 6" (15 cm) in front of the unit while placing the battery compartment into the unit.

NOTE: The unit will automatically flush one time if no user presence in 24 hours.

Auto-Range Calibration

Each Sensor Flush is calibrated at factory with optimal detection range for operating in most restroom environments. However, range calibration may be required if unit is installed with highly reflective material (mirror, polished metallic door…etc.) in front. To calibrate the sensing range, please follow procedures as below;

1. Use the supplied hex wrench to remove battery compartment. Wait for 1-2 minutes or standing in front of the sensor for at least 5 seconds to allow fully discharge. Reinstall the battery compartment.
2. Place the palm 1~2" in front of the sensor (do not touch the lens) for about 10 seconds. Move the palm away when LED is ON.
3. Stand at the desired range within 20 seconds and wait until the LED is OFF. The unit will calibrate the detection range automatically for about 15 ~30 seconds. The LED will fast blink twice for 5 times and then flush once after the calibration completed.

   NOTE: The calibration mode can only be enabled within 15 minutes after the power applied.

LED INDICATIONS

LED	INDICATION
Blink once per second	Detecting user presence
Blink every 5 seconds	Low battery power
Constantly ON	Entering calibration mode
Blink twice for 5 times	Range calibration completed
ON for 2 seconds	Flush activating

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
LED blinks every 5 seconds	Low battery power	Replace batteries
Insufficient water flow	Stop Valve improperly adjusted	Adjust Stop Valve (open)
Excessive water flow	Stop Valve improperly adjusted	Adjust Stop Valve (close)
Continuous water flow	Debris clogging flush valve's diaphragm	Clean or replace the diaphragm kit
LED does not blink when user is present	Detection range is too short	Place hand at 6" in front of the sensor to check. If LED blinks, conduct auto-range calibration as instructed.
	Batteries are dead	Place hand at 6" in front of the sensor to check. If LED still not blink, replace batteries.