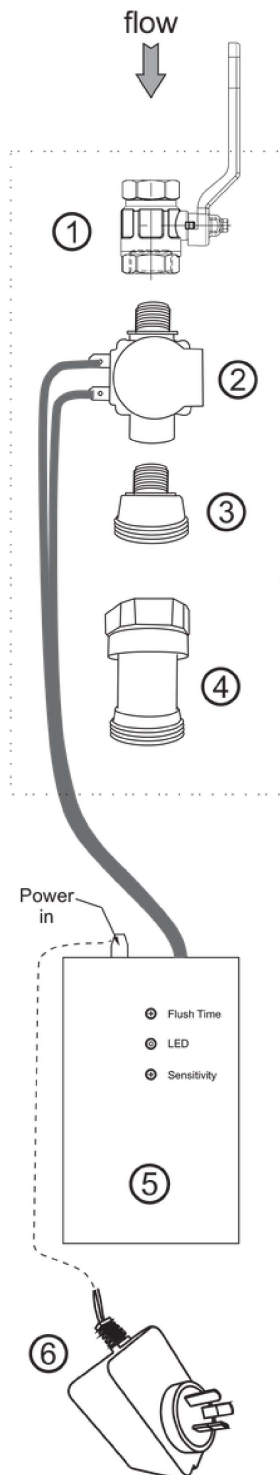


# MAG Sensa-flush Urinal Flushing System

## Installation Instructions



Part	Name	Comment
1	Manual Shut off Valve	G1/2"
2	Solenoid Valve	G 1/2", 24 VAC, 8 VA
3	Pipe Adaptor	G1/2" male to 1-1/2" male
4	Air Break	
5	Sensor	Including Mounting Tape
6	Power Adaptor	240 VAC; 130mA ->24VAC; 800mA

**Note:** A power point of 240 VAC is required in the vicinity of intended Sensor position in the ceiling or wall cavity. the power cable length is 1800 mm.

The unit flushes the urinal 60 seconds after a user is detected.

### Sensor Installation

- Sensor is placed above ceiling or behind wall in a way that enables it to detect urinal use.
- Sensor must be installed in the correct orientation, as indicated on the unit. Beam side towards user. The sensing beam exits the sensing side of the Sensor, which is clearly marked.
- The Sensor is to be placed directly onto the ceiling or wall board material. It can be placed against Plaster Board, Fibre-Cement, Tile, or similar but will **not work** if put on metal or concrete.
- Position directly above (or in front) of the urinal to be flushed.
- Fix the Sensor to the wall board using double sided tape (supplied). Ensure cable can reach Solenoid Valve. Sensor cable length is 1900mm

### Solenoid Assembly Installation

- Solenoid valve Assembly to be installed a min. 470 mm above urinal entry.
- Solenoid Assembly is to include a Manual Shut-Off Valve, and an Air-Break.
- Order of assembly to be as indicated in the illustration on the left of the page.
- Inlet to the Manual Shut-Off valve is G1/2". The outlet of the Air-Break is a 1 1/2" BSP Thread.
- It is required to install a Ø40 mm pipe of 250-30 mm length below the AirBreak before reducing diameter to a 19 mm sparge pipe, and into the Urinal. This will prevent possible flow-back when flushing.

### Sensor Operating Details

**Note: The unit detects movement** and not presence. If a user keeps still, they will NOT trigger a flush.

On the back of the Sensor opposite to the Beam side, there are a LED indicator and two adjustment screws.

- The LED flashes when a user is being detected.
- Adjustments alter the **sensing range of the unit** and the **duration of flush**. The valve open period (flush duration) is adjustable between 4 to 10 seconds. More details below.

**Note:** If persons passing by are triggering the unit unnecessarily, either reduce the sensitivity, or locate the Sensor at a less sensitive position. Perhaps the Sensor can be moved to the left or right or more towards the urinal wall, whatever best suit the job.

# MAG Sensa-flush Urinal Flushing System

## Installation Instructions

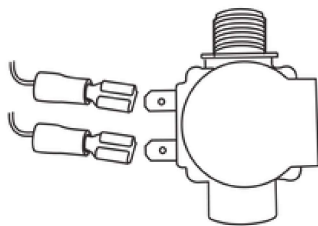
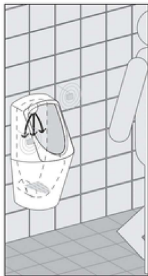
Use/Motion



Move away



+60sec  
then flush



## Connections

- Route the cable from Sensor into the wall cavity to the Solenoid Valve.
- Connect the cable to Solenoid Valve by inserting the 2 quick connect terminals onto Tabs (any orientation):
- Connect the cable from the Power Adapter to the screw terminals on the Sensor (any orientation),
- Plug in the Power Adapter to a power point, and turn on. Notice that the LED flashes.

## Operation

- The system will trigger a flush approximately 60 seconds after a user is detected at the urinal. It will then not re-trigger until around 20 seconds after the last flush began.
- The LED will continue to flash after a flush had triggered, as well as during the period after the flush when a flush will not re-trigger.
- The LED simply indicates the detection of a user, not the state of the flush cycle.
- Once a cycle is triggered, subsequent triggers are ignored until the cycle is complete.
- To assist with the setup of the flushing system, the LED will flush once 15 seconds after power is first connected to the Sensor.
- A flush can be forced at any time by turning off the power for 15 seconds & then turning it back on.

Note: If you are working in the ceiling near the unit, LED may flash unless you keep very still.  
Keeping still enables you to watch for correct operation of the LED.

Ensure the manual Shut-Off valve is in the 'open' position (handle parallel to line) for system to work.

## Range & Flush Period Adjustment

Flush period is set to a nominal 7 seconds which is usually correct for most installations.

Adjustment of the sensitivity control is not usually necessary. If you decide to make an adjustment, use a small screw driver to make the adjustment. A blade no wider than 2.5 mm is required.

- Clockwise turn increases sensitivity/me, an-clockwise reduces
- Insert the screw driver gently into the adjustment hole beside the led indicator
- locate the adjustment screw and turn gently
- Take care and never force the adjustment. It may cause internal damage to the unit, particularly if excessive force is used to push on the screw driver.

For Assistance, Contact MAG Specialised Plumbing Products  
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Dimensional Data (mm) are Subject to  
Manufacturing Tolerances and Change Without Notice