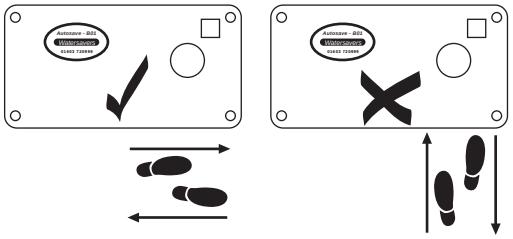
Battery Powered Shut off Valve
Product Code SOV-50
(with integral PIR infrared sensor)

INSTALLATION INSTRUCTIONS
please read carefully

DESCRIPTION The SOV-50 turns off the water supply to buildings when unoccupied to prevent water wastage due to running taps, burst pipes etc. Features include programmable shut off delay, simple test facility and low battery indication.

PLUMBING **Read the instructions supplied with the solenoid valve and note the following important points:-**
Fit the the solenoid valve at a suitable location on the incoming supply pipe to the building or area of the building.
The valve will work in any position however it is recommended to have the pipe work horizontal with the coil vertical.
Ensure that the arrow or words IN and OUT marked on the valve body correspond to the direction of water flow.
Keep foreign bodies from getting inside the solenoid valve. Debris such as solder, scale, sealing materials can harm valve.

LOCATION OF THE SOV-50 Fix the control box to detect people entering, moving about or leaving the building.
Typical positions would be the wall or ceiling of entrance corridor, toilet area etc. Avoid heat sources such as sunlight, radiators, hand driers etc.
Select Test Mode (see below) to confirm detection by flashing LED
NB for best operation movement detected should be from side to side as shown in the diagram opposite:



ELECTRICAL Using 2 core 0.75 or 1mm cable connect pcb terminal block to corresponding numbered terminals on solenoid valve DIN connector. Restrict cable runs to a maximum of 10m for 0.75mm or 20m for 1mm conductor size.
Do not over tighten screws on terminal block. Drill 12mm hole in enclosure and route cable through gland supplied.
Note: In order to operate from batteries, the SOV-50 uses a latching solenoid valve that is pulsed to open and pulsed to close. If the connections to the valve are reversed the open/closed status of the valve will be reversed.

COMMISSIONING Turn on water supply. Insert batteries into holder, connect lead from PCB to battery holder.
LED behind lens will flash twice upon connection, valve will immediately click to close (if open) and will click open after 2 or 3 seconds.
The valve will remain open for the duration of the shut off delay providing no detection takes place.

TEST MODE In order to perform a quick operational check use the optional Magi-Test wand (see below) or remove the front cover and press the blue TEST button. The SOV-50 will enter a 2 minute Test mode with LED detection indication as below:

MAGI-TEST Using magnetic test wand, just touch square above lens as shown here
SOV-50 will enter a 2 minute Test mode with short 10 second shut off delay. LED flashes to indicate detection, test mode auto cancels.

This will test batteries, sensor, valve & water supply

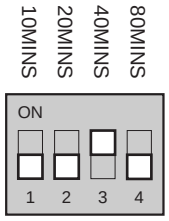
(OR PRESS BUTTON)

TEST

SETTING SHUT OFF DELAY
Set the required shut off delay by selecting one or more of the dipswitches to the ON (UP) position
Times are additive ie to set 1 hour shut off delay select switches 2 and 3 (20 + 40 = 60 minutes)

Timing range is from 10 - 150 minutes

The default (factory) switch setting is for 40 minutes shut off delay



REPLACING BATTERIES LED blinks once per second to indicate a low battery condition.
Simply replace with 4 x 1.5v AA size alkaline cells and the SOV-50 is ready for use again!
IMPORTANT NOTE: The valve will be closed (fail safe) following 2 weeks of the low battery warning!

Watersavers™

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