Assembly and installation instructions
for the JohnsonSuisse LIFE Urinal with the COMPACT RD electronic sensor urinal valve

Operation Description
The Compact RD uses a Radar Detection system to detect the movement of a user.

The system is unaffected by common ambient influences such as light, people passing by and nearby structures.

The system also includes a programmed self sensing stadium mode and a periodic stagnation/hygiene flush.

Flushing volume can be adjusted to deliver 0.6 - 6L of water in a single flush

Technical Data
- Flow pressure: 50 - 500kPa
- Flow rate: 0.3l/sec
- Power supply: 240V 50/60Hz
- Output: 7.5V 1A
- Noise class II
- Protection class: IP64
- Stagnation/hygiene flush: 20sec - 24 hours after last use
- Automatic stadium mode

E-Module and sensor: Conformity with R & TT 1999/05/EC, EMC 89/336/E
**Operation Sequence**

1. Use urinal.
2. Approximately 5 seconds dwell time elapses after moving away.
3. Flush operation.
   - Flush is adjustable 2-20 seconds (see p4).
   - Factory flush setting - 20 seconds.
   - Flushing is locked for approximately 8 seconds after each flush.

**Note:**
- Stadium mode will automatically commence when there are >3 uses within 4 minutes.
- Stadium mode operates 1 flush/minute.
- Stadium mode will finish when no use is detected for 5 minutes.
- A 20 sec stagnation/hygiene flush operates every 24 hours of non-use.

**Component list**

1. Compact rough-in set with air break
2. Power supply
3. Solenoid valve
4. Sensor/control module
5. Flush pipe (not included)
6. Power connecting cable
7. Solenoid connecting cable
8. Conduit (not included)
Assembly

1. Complete the water supply connection to the flush valve. **Important:** the flush valve must be installed vertically and the lines must be flushed prior to fitting the solenoid valve.

![Diagram of flush valve](image)

2. Remove the white plastic blanking plug from the solenoid cavity

3. Screw in the solenoid valve - hand tighten only

4. Pull the extension cables through the conduit - note that the conduit must have no kinks in it

5. Connect the extension cables to the sensor, power supply and solenoid

6. Connect the supply transformer to power point. **Important** - ensure that the correct wiring connections are made prior to installing the urinal.
   
   Note: Surge protectors are recommended to avoid power spikes affecting the life of the transformer and control module

Sensor Installation

1. Locate and clean the fixing location of the sensor on the ceramic piece. Mark the location with a felt tip pen.

2. Cut and apply the strip adhesive only to the sides of the sensor housing - there must be no adhesive between the sensor housing and the urinal wall

3. Press the sensor module firmly into position and hold in place for approximately 20 seconds
1. LED indicator light

2. Use the screwdriver supplied to adjust the radar sensitivity (range 0 - 50 centimetres)
   Set at approximately 40cm.

3. Use the screwdriver supplied to adjust the flush time (2 - 20 seconds)
   Note: for a single stall set the timer to ~5 seconds

Sensor Adjustment

Commissioning

Function Test (Dry)

1. Close the isolating valve

2. Ensure that the power supply is OFF

3. Check that all cables are properly connected

4. Turn the power supply ON

5. Within 60 seconds of power on, move your hand in front of the sensor position and verify that the LED turns on. This confirms correct operation

6. Turn OFF the power supply while mounting the ceramic urinal

Function Test (Wet)

With the urinal fitted in position, connected and power on, conduct the following test:

1. Turn isolating valve on.

2. Using a suitable container pour approximately 100-150ml into the urinal bowl in the sensor area.

3. Flushing will occur after a time delay of approximately 5 seconds.

4. After approximately 8 seconds (lock period after flush) repeat the test.

5. In the event of a malfunction refer to the error checklist - Pg 5).
## Error Checklist

<table>
<thead>
<tr>
<th>Fault</th>
<th>Possible cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No flushing</td>
<td>No water</td>
<td>Open isolating valve</td>
</tr>
<tr>
<td></td>
<td>No power supply</td>
<td>Check mains connection and plug in connections</td>
</tr>
<tr>
<td></td>
<td>Insufficient test water quantity</td>
<td>Pour approx 100-150ml water into urinal</td>
</tr>
<tr>
<td></td>
<td>Test interval too short</td>
<td>Time difference after flushing (water still running) approx 8s.</td>
</tr>
<tr>
<td></td>
<td>Sensor not mounted correctly</td>
<td>Check position and direction of arrow of sensor</td>
</tr>
<tr>
<td></td>
<td>Sensor sensitivity not correct</td>
<td>Increase sensor sensitivity</td>
</tr>
<tr>
<td></td>
<td>Water running for too long</td>
<td>Install supply set with backflow preventer, if necessary replace solenoid valve</td>
</tr>
<tr>
<td></td>
<td>Sensor module defective</td>
<td>Replace</td>
</tr>
<tr>
<td>Continuous flow</td>
<td>Flow pressure too low</td>
<td>Open isolating valve (min. 0.5bar)</td>
</tr>
<tr>
<td></td>
<td>Solenoid valve defective</td>
<td>Replace</td>
</tr>
<tr>
<td></td>
<td>Sensor module defective</td>
<td>Replace</td>
</tr>
<tr>
<td>Insufficient flushing</td>
<td>Flow pressure too low</td>
<td>Open isolating valve (min. 0.5bar)</td>
</tr>
<tr>
<td></td>
<td>Flush time too short</td>
<td>Adjust the flush time</td>
</tr>
</tbody>
</table>
Typical installation solutions

Inwall installation

Important
First 130mm min. of pipework below air-break must be straight

Flush pipe must be installed vertically
As a minimum use 20mm copper or 20mm ID for plastic

Bracket
Urinal fixing set
Sensor

Water supply
50-500kPa

Cover plate (optional)
Code: 667283

Wall cavity
100mm min.

Power supply

Conduit

Important
First 130mm min. of pipework below air-break must be straight

Isolating valve

OPEN
CLOSE

Note: Flush pipe must be vertical until the 90° bend at the urinal entry. There must be no other bends than this.
In-duct installation

Water supply 50-500kPa

Flush pipe must be installed vertically
As a minimum use 20mm copper or
20mm ID for plastic

Important
First 130mm min. of pipework
below air-break must be straight

Bracket
Urinal fixing set
Sensor

Important
First 130mm min. of pipework
below air-break must be straight

Flush pipe must be installed vertically
As a minimum use 20mm copper or
20mm ID for plastic

Bracket
Urinal fixing set
Sensor

Inlet centre

Ceiling installation

Water supply 50-500kPa

Important
First 130mm min. of pipework
below air-break must be straight

Flush pipe must be installed vertically
As a minimum use 20mm copper or
20mm ID for plastic

Bracket
Urinal fixing set
Sensor

Inlet centre

Note: Flush pipe must be vertical until the 90° bend at the urinal entry. There must be no other bends than this.
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