

SCHELL RETRO FIT KIT / REPLACEMENT KIT INSTRUCTIONS

010170099

Assembly and Installation Instructions to Convert the SCHELL COMPACT HF Electronic to the SCHELL COMPACT RD Electronic Sensor Urinal Valve

The HF Electronic had a separate Electronic Control Module and Sensor and any stream of liquid once detected by the Sensor would activate the Electronic to flush the urinal.

The RD Electronic has a single Electronic Sensor/Control Module that uses a radar detection system to detect the movement of the user and then flush the urinal.

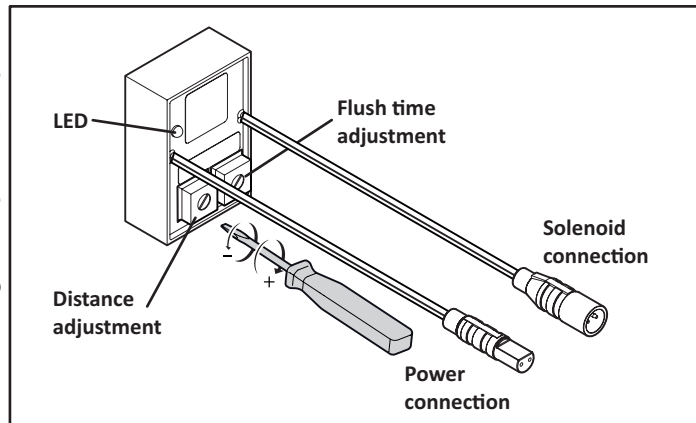
***The components of the Schell Compact RD Urinal Retro Fit Kit are installed using the existing Water Path, Rough-In Set and DR Adapter and Solenoid Valve.**

***Ensure that you do not remove the existing Control Module Sensor Cable until you have installed the 2 new Extension Cables.**

1. Remove the urinal from the wall and remove the existing sensor.
Note: the new Sensor/Control Module will be positioned at a higher point, above the rim of the urinal.
2. Using electrical tape or cable ties, attach the 2 new extension cables to the old sensor lead coming from the HF Control Module. Then pull them through the conduit to chase them up behind the wall.
Note: you will need one male and one female end for correct connection
Note: you can now completely remove the old HF Control Module
3. Disconnect the Solenoid from the old HF Control Module.
4. Remove the old HF Transformer and replace with the new RD Transformer supplied.
5. 1 Extension Cable connects to the existing Solenoid and the 1 Extension Cable connects to the new RD transformer.
6. Attach the RD Electronic Sensor/Control Module to the back of the urinal, using the supplied adhesive strip.
Note: Refer to Sensor Installation on page 3 of complete installation instructions.
 - The adhesive must be applied to the sides of the sensor housing only
 - There must be no adhesive between the sensor housing and the urinal wall
 - The sensor/electronic must be placed at a level above the height of the front rim of the urinal
7. Connect the Extension Cables to the Sensor/Control Module.
8. Please use this detail in conjunction with the complete Assembly and Installation Instructions for the SCHELL COMPACT RD electronic sensor urinal valve.

Sensor Adjustment

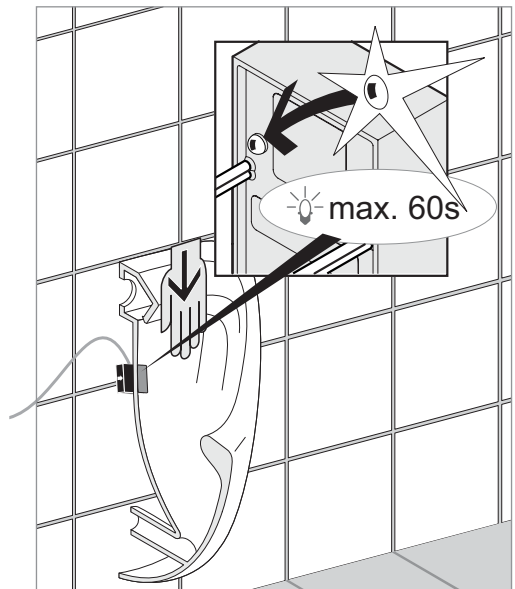
1. LED indicator light
2. Use the screwdriver supplied to adjust the radar sensitivity (range 0 - 50 centimetres) Set at approximately 40cm.
3. Use the screwdriver supplied to adjust the flush time (2 - 20 seconds)
Note: for a single stall set the timer to ~5 seconds



Commissioning

Function Test (Dry)

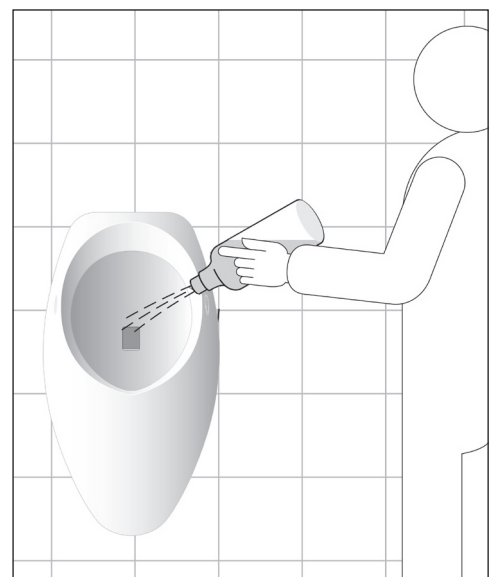
1. Close the isolating valve
2. Ensure that the power supply is OFF
3. Check that all cables are properly connected
4. Turn the power supply ON
5. Within 60 seconds of power on, move your hand in front of the sensor position and verify that the LED turns on. This confirms correct operation
6. Turn OFF 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 - P. 5



Error Checklist

Fault	Possible cause	Remedy
Not flushing	No water	Open isolating valve
	No power supply	Check mains connection and plug in connections
	Insufficient test water quantity	Pour approx 100-150ml water into urinal
	Test interval too short	Time difference after flushing (water still running) approx 8s.
	Sensor not mounted correctly	Check position and direction of arrow of sensor
	Sensor sensitivity not correct	Increase sensor sensitivity
	Water running for too long	Install supply set with backflow preventer, if necessary replace solenoid valve
	Sensor module defective	Replace
Continuous flow	Flow pressure too low	Open isolating valve (min. 0.5bar)
	Sensor module placed too low	Refer to correct installation in P.3
	Incorrect application of the adhesive that holds sensor in place	Ensure the adhesive is NOT applied between the sensor and the ceramics, but around the sensor housing. refer to P.3 for correct installation.
	Solenoid valve defective	Replace
	Sensor module defective	Replace
Insufficient flushing	Flow pressure too low	Open isolating valve (min. 0.5bar)
	Flush time too short	Adjust the flush time