



**COMPACT LC / RETROFIT LC urinal control. By SCHELL.**  
Perfect Hygiene. Invisible Flush Technology.

# COMPACT LC – The true hidden champion

## Universal use

COMPACT LC can be combined with all ceramic and stainless steel bowls

## Optimum cleanliness

Flushing is automatically actuated after each use

## Easy operation

Concealed fitting can be installed flexibly and with easy access



## Maximum hygiene

Contact-free operation ensures hygiene safety for the user

## Tried-and-tested technology

In use all over the world for 10 years

## Secure protection against vandalism

No weak points due to concealed placement of fitting, sensor and power supply

## Controlled water level

Blockages of the siphon or low water level are detected and fitting reacts accordingly

Responsibility for health.

Made in Germany

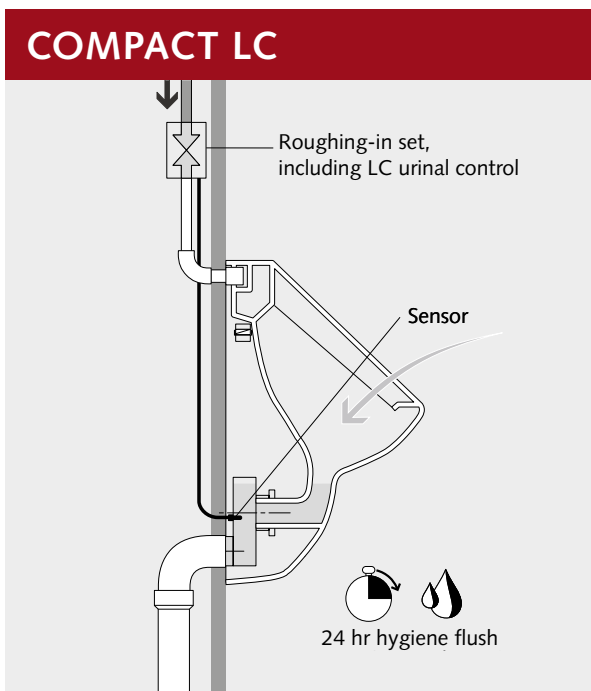
[www.schell.eu](http://www.schell.eu)

## COMPACT LC

The invisible sensor control for all urinals with concealed inflow.

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Together with the COMPACT II urinal roughing-in set, the COMPACT LC control can be used universally for all urinal bowls, including stainless steel bowls. The fully encapsulated LC sensor is corrosion-proof and reliably detects the flushing need actuated by users, even when there are major urine deposits or scaling.



### The way it works:

Essentially, the sensor in the siphon registers the temperature change in the siphon water and thus activates the flushing process. The temperature change is actuated by use of the urinal. The sensor also acts as an overflow protection (flooding) and prevents the siphon from drying out (build-up of odours).

### Product features:

- Universal siphon flush control for all ceramic and stainless steel bowls
- Urinal siphon with factory-fitted, encapsulated LC sensor
- Corrosion-proof sensor with flow and temperature detection in the siphon water
- E-module and power adapter (item no. 01 197 00 99) or e-module and battery compartment (item no. 01 196 00 99) for installation in the SCHELL COMPACT II concealed urinal flushing system/COMPACT II LC urinal mounting module
- 3 flushing programs – 3 servicing programs – 1 diagnostic program\* (function check)
- Odour trap monitoring, even at low water level
- Automatic flush stop if drain pipes blocked
- In battery mode: acoustic signal when battery charge is low

\* Setting and diagnostic program are carried out via reed contact and magnetic key (accessories)

# Advantages and areas of application.

## Overview of advantages:

- Equally suitable for ceramic and stainless steel bowls
- Flexible installation location of flush valve
- Choice of mains or battery operation
- Invisible installation
- Siphon/sensor factory checked
- Ready for use immediately after installation
- Hygienic, vandal-proof control
- Contact-free actuation
- Precise user detection via sensitive sensor technology, even with deposits
- Can easily be programmed via reed contact (accessories)
- Protection against siphon drying out and odour build-up
- Integrated overflow protection if siphon is blocked
- Stagnation and cleaning flush to maintain hygiene
- Water-saving thanks to automatic stadium mode and economy program if required

Easy construction planning thanks to flexible fitting installation site

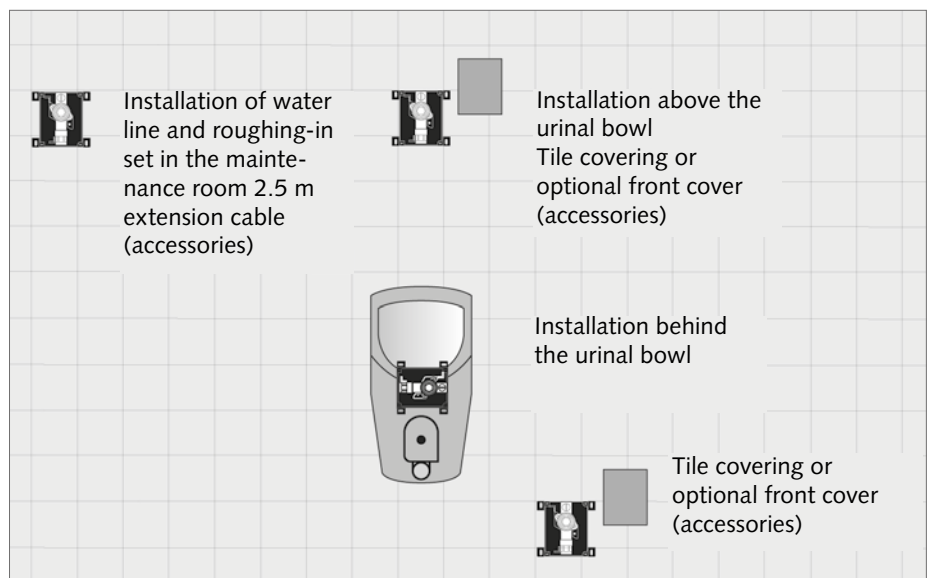
## Areas of application:

- Catering
- Hotels
- Sports facilities and stadiums
- Airports
- Administration buildings
- Industry and commerce
- Hospitals and care facilities
- Motorway service areas and camping sites
- etc.

\* Setting and diagnostic program are carried out using reed switch and magnetic key (accessories)

## Flush valve installation location:

- Invisible and freely selectable installation, e.g. above the urinal, in the false ceiling, in the maintenance passage or at foot level.



## Example calculation for cost saving.

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### Cost-saving through hybrid control, motorway service area example

(Operating time 16 hours/day, opening times 320 days/year)

$$\text{Hybrid flush} = \frac{\text{Max. 4 flushes}}{\text{Hour}} \cong \frac{64 \text{ flushes}}{\text{Day}}$$

- Max. flushing frequency: 64 flushes/day at 3 l flush volume (irrespective of the number of users)
- Max. flush volume/year: 61 m<sup>3</sup>
- Cost of drinking water (€5.35 /m<sup>3</sup>): €328.70

Comparative costs for normal urinal control

- With 2-litre flushing for the same operating time and
- Approx. 10 users/hr approx. flush volume/year
- Consumption: 102 m<sup>3</sup>  $\cong$  €545.70 /year

**Conclusion: possible saving of approx. € 220 /year**

Save  
water  
costs!

Efficient urinal  
control with  
COMPACT LC  
and  
RETROFIT LC!

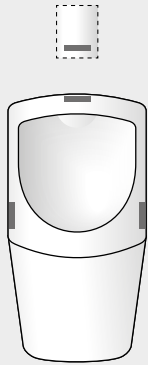


# Programming via reed contact (accessories).

## COMPACT LC – urinal control

### LC programming via reed contact (accessories)

#### Possible positions for the reed contact



#### Function



Start



Program

e.g. 4 x = function check

#### Function test (automatic)



1 x = OK



1 x = solenoid valve faulty



2 x = sensor faulty



3 x = battery low

## Programming

### 3 flush programs

1. Economy program	1-litre flush*
2. Factory setting	2-litre flush*

\*With stagnation flush (24 hours after last use) and stadium program (where there are more than 2 users within 5 minutes, there is one flush a minute)

### 3. Hybrid flush

1 x 3-litre flush 15 minutes after the last use. Suitable for urinals with a sealing liquid.

#### Additional functions (active for all 3 flush programs)

- Overflow protection: no flush if bowl is blocked
- Siphon is protected against drying out (automatic re-flushing if water level too low)

## Technical data

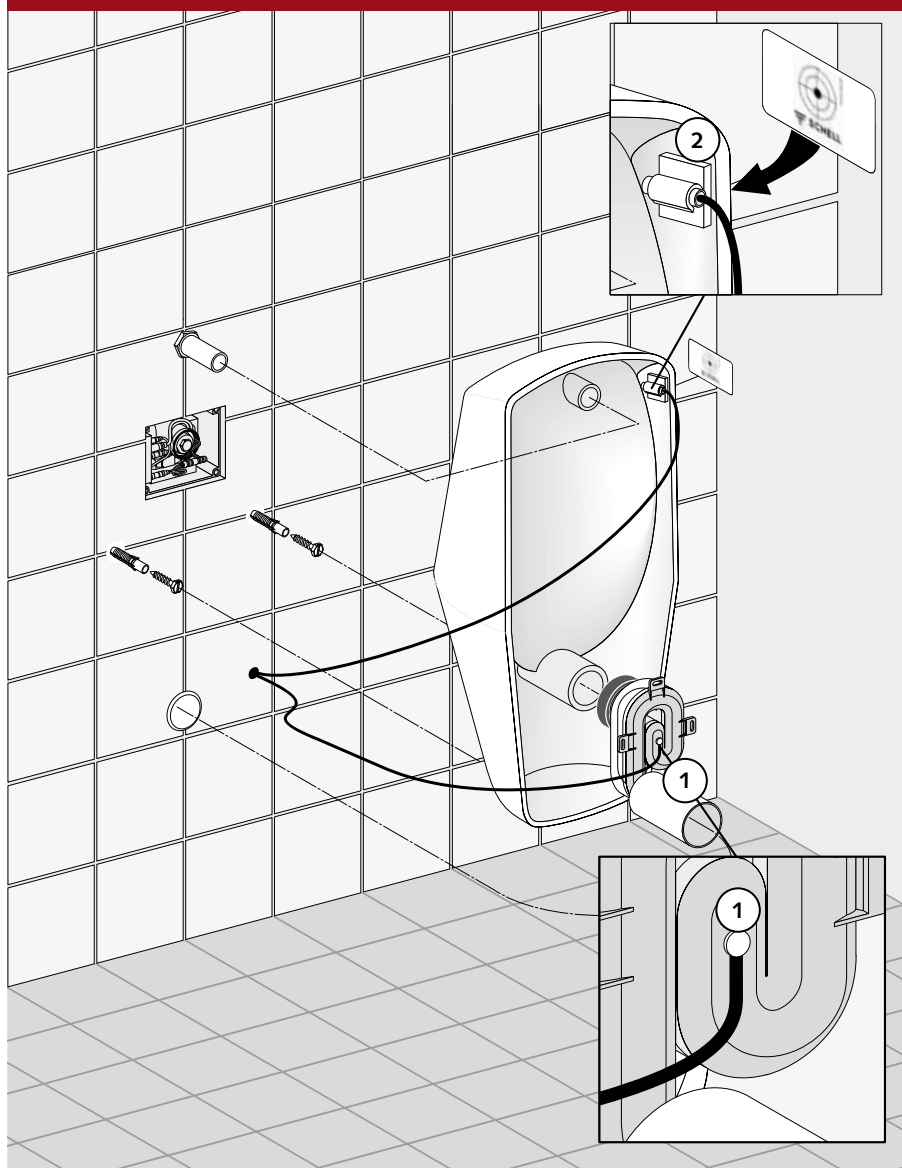
Flow pressure	0.8 - 5.0 bar
Flow rate	0.3l/s
Noise class	I (test mark: PA-IX 18779/I)
Mains operation	100 - 240 V, 50 - 60 Hz
Battery operation	4x 1.5 V AA
Fittings connection	DN 15 G 1/2 AG

## COMPACT LC

Pre-assembled set - battery operation	Item no. 01 196 00 99
Pre-assembled - mains operation	Item no. 01 197 00 99
COMPACT II urinal roughing-in set	Item no. 01 193 00 99
MONTUS COMPACT LC urinal module	Item no. 03 283 00 99
MONTUS COMPACT II urinal module	Item no. 03 075 00 99
EDITION LC urinal front cover	Item no. 23 080 28 99

# Easy installation of the invisible technology.

## COMPACT LC – flush valve installation in the wall behind the urinal bowl



## Final assembly



### Installation.

The tried and tested COMPACT II roughing-in set and the MONTUS urinal modules can be used for the COMPACT LC urinal control. The electronic module and power supply components (mains adapter or battery compartment) can easily be integrated into the roughing-in set.

The LC sensor is fitted into the supplied siphon ex works and checked for leaks. The roughing-in set can for example be installed in the wall above the urinal bowl or up to 2.5 m away from the sensor (e.g. ceiling, maintenance passage).

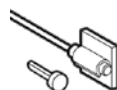
### Accessories:



MONTUS urinal module with COMPACT II LC



MONTUS urinal module with COMPACT II



COMPACT LC reed contact



EDITION LC urinal front cover

1 Siphon with LC sensor is included in the scope of delivery.

2 Reed contact for mounting on the inner part of the ceramics. With trigger marking point for programming (accessories)

# RETROFIT LC – ideal for refurbishment

## Versatile use

Ideally suited for renovation, refurbishment and difficult installation situations

## Optimum cleanliness

Flushing is automatically actuated after each use

## Easy installation

Special supply set and clever installation kit makes fitting particularly easy



## Maximum hygiene

Contact-free actuation ensures hygiene safety for the user

## Secure protection against vandalism

No weak points due to concealed placement of fitting, sensor and battery

## Controlled water level

Blockages of the siphon or low water level are detected and fitting reacts accordingly

Responsibility for health.

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## RETROFIT LC

Ideal for renovation.

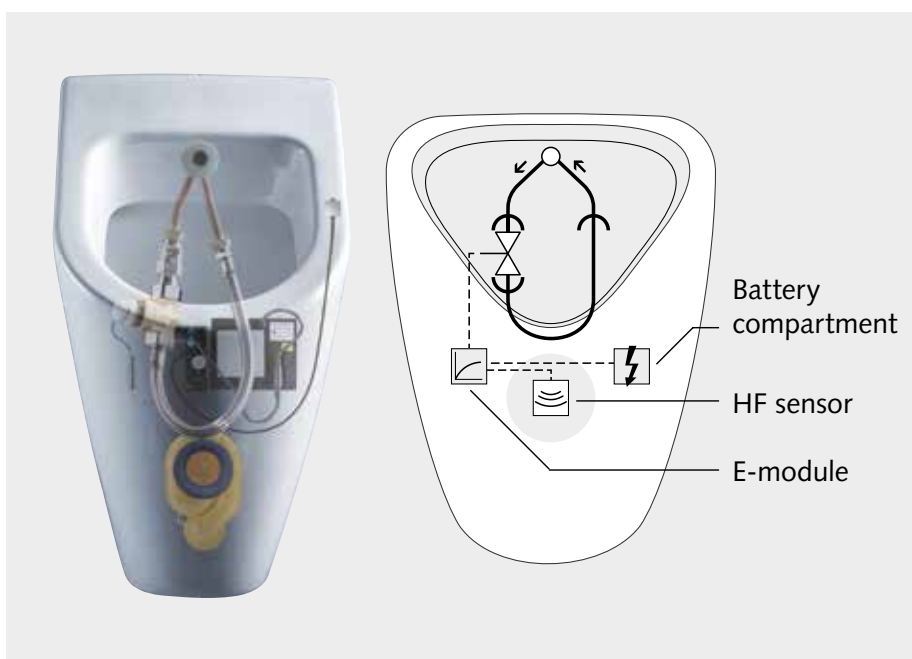
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RETROFIT LC is the versatile siphon flush control for vandal-resistant installation behind the sanitary ceramics. Thanks to battery operation, it is particularly suitable for the refurbishment of existing systems. The special supply set and the clever installation kit ensure easy fitting.

### Product features:

- Siphon flush control that is versatile to use for installation behind the sanitary ceramics
- Urinal siphon with factory-fitted, encapsulated LC sensor
- Corrosion-proof sensor with flow and temperature detection in the siphon water
- E-module and battery compartment (item no. 01 285 00 99)
- Special supply set and complete installation kit
- Isolating valve G 1/2 IG × G 3/4 AG included
- 3 flushing programs – 3 servicing programs – 1 diagnostic program\* (function check)
- Odour trap monitoring, even at low water level
- Automatic flush stop if drain pipes blocked
- Acoustic signal when battery charge is low

\* Setting and diagnostic program are carried out via reed contact and magnetic key (accessories)



Ideally suited for renovation and refurbishment, as well as for difficult installation situations E-module and solenoid valve, including plastic water line and flexible hose to trigger flushing, are placed in the urinal bowl.

# RETROFIT LC

## Advantages and areas of application.

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### Overview of advantages:

- Ideal for renovating existing sanitary systems
- Easy installation thanks to special supply set and clever installation kit
- Invisible installation
- Siphon/sensor factory checked
- Ready for use immediately after installation
- Hygienic, vandal-proof control
- Contact-free actuation
- Precise user detection via sensitive sensor technology, even with deposits
- Can easily be programmed via reed contact (accessories)
- Protection against siphon drying out and odour build-up
- Integrated overflow protection if siphon is blocked
- Stagnation and cleaning flush to maintain hygiene
- Water-saving thanks to automatic stadium mode and economy program if required (see also example calculation of water cost saving on page 5)



### Areas of application:

- Catering
- Hotels
- Sports facilities and stadiums
- Airports
- Administration buildings
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- Motorway service areas and camping sites
- etc.

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Suitable for the following porcelain urinal bowls:

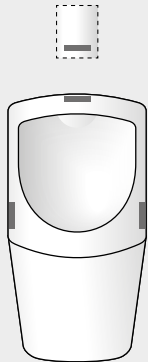
- KERAMAG: Aller, Public Line, Renova
- VILLEROY & BOCH: Magnum, Subway, Arriba

# Programming via reed contact (accessories).

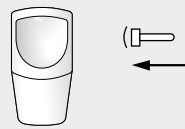
## RETROFIT LC – urinal control

### LC programming via reed contact (accessories)

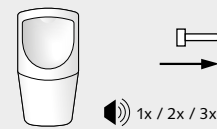
Possible positions of the reed contact



Function



Start



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Function test (automatic)



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## Technical data

Flow pressure	0.8 - 5.0 bar
Flow rate	0.3 l/s
Noise class	I (test mark: PA-IX 18779/I)
Mains operation	100 - 240V, 50 - 60Hz
Battery operation	4x 1.5V AA
Fittings connection	DN 15 G 1/2 AG

## RETROFIT LC

SCHELL RETROFIT LC urinal control - battery operation	Item no. 01 285 00 99
COMPACT LC reed contact with magnetic key	Item no. 01 529 00 99



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