Touchless sanitary equipments

senzor®

Presentation catalogue
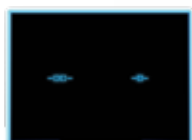## 2022 - 2023

Dear customers,

We are addressing you with an offer of our modern automatic equipment for water management. These devices, developed and manufactured in SENZOR, combine progressive and economic opto-electronic operational principle with elegance and comfort. They offer their users a variety of advantages. Products are continuously developed and adapted to new trends and users´ requirements.

SENZOR company has been intensively engaged in sensor technology since 1982 and thanks to a wide public interest the automatic water management equipment production has become its main program, which is developed and complemented with other products continuously. Due to SENZOR´s vigorous efforts to maintain a high quality and accessible prices these products can be used in a wider range of applications. The current production program offers solutions for basically any task in the fields such as:

- spas, hotels
- swimming pools, open-air pools, sport facilities
- tourist industry (camping sites, accommodation facilities)
- health care, social institutions
- food industry
- public lavatories

In relation to utility functions SENZOR´s development employees put the greatest emphasis on water saving. Of course, in individual applications other aspects are important too, which these devices meet and which might be decisive when choosing a device.

SENZOR´s products
offer you the following advantages:

Water saving

The use of these devices ensures the consumption of inevitable, yet sufficient, volume of water. This makes it possible to achieve the savings of about 40-80%. Together with hot water saving it may result in a noticeable energy saving. Devices equipped with flow regulators allow a flow of a set water volume only, regardless the distribution system pressure. The process of water flow through the regulator is shown in the following figure:

l/min.

Reg. 10 l/min.   → bar
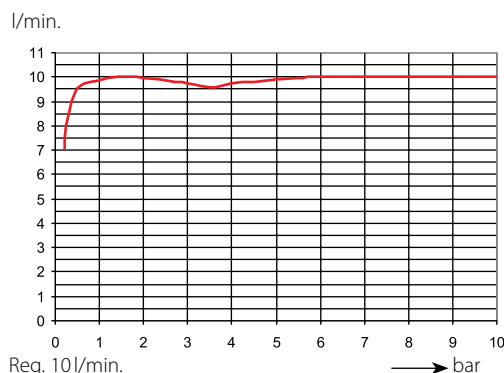
Environmental hygiene

Parts of these devices have a smooth shiny chrome surface or they are made of stainless steel with rounded edges without sharp protrusions. Cover shields are without fixing screws or any other surface roughness so their cleaning is very easy. Their mechanisms work without being touched. For hygienic reasons due to the nature of the environment urinal flushing devices flush at automatically set times after the last use. Toilet bowl flushing devices are equipped with manual control enabling an additional flush during cleaning. Shower units and wash basin faucets allow hygienic flushing in various automatic modes against Legionella bacteria or thermal disinfection.

Automatic operating principle

It offers a user a high comfort. Water discharge is controlled by a microprocessor, which based on the information from an opto-electronic sensor according to the set program, opens or closes the electromagnetic valve built in the water distribution system. It is possible to change and set parameters by means of a remote control. The range of wash basin faucets is set automatically.

Operation safety

It is given by the design, low supply voltage (12 V, 6V), insensitiveness to other light sources, a protective function of the thermostatic valve against scalding or a microprocessor program which provides the protection against permanent valve opening during a constant shielding of the sensor.

### Protection against forcible damage

A flawless protection against forcible damage does not exist. The equipment design tries to reduce the chances. Basically, it is a smooth solid shielding cover, tightly fitted to the wall surface, a hidden anchorage and electronics hidden in wash basin drains.

Installation, maintenance

Fixtures are equipped with a threaded connection at inlet and outlet sides. A ball closing valve in front of the electromagnetic valve inlet is included in a delivery. Fixture parts, intended for wall mounting, are installed into plastic installation boxes. Additional access to all parts during maintenance or potential repairs is very good. Battery replacement in 6V versions is facilitated by means of a battery case attached to the device through a connector. The products are intended for installation onto light prefabricated wall systems too.

Long life

It is ensured by selection of high-quality components and cladding chosen due to a damp working environment. The electromagnetic valve is situated at the inlet side, protected by an easily accessible fine filter. The valve itself has a long life thanks to its subdued operation, not causing any surging in the piping. The surges are caused by opening and closing the valves according a diagram.
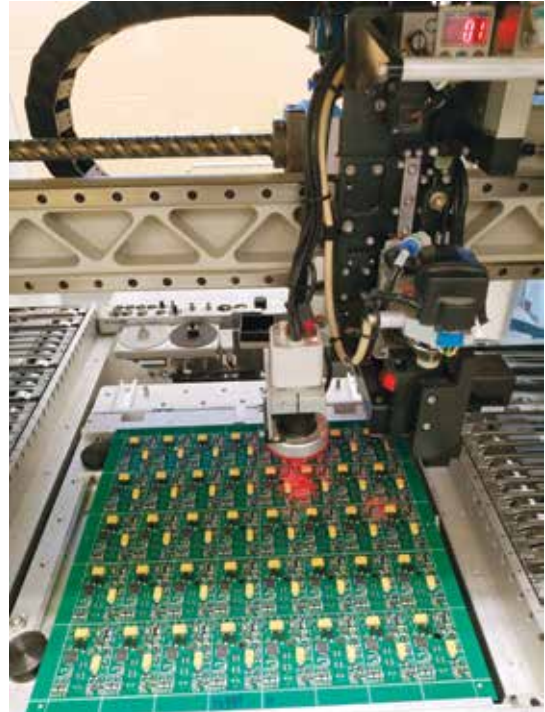
Dear customers,
Our experts are ready to provide all necessary information for you, cooperate in designing your applications and find the technically and financially best solution for you.
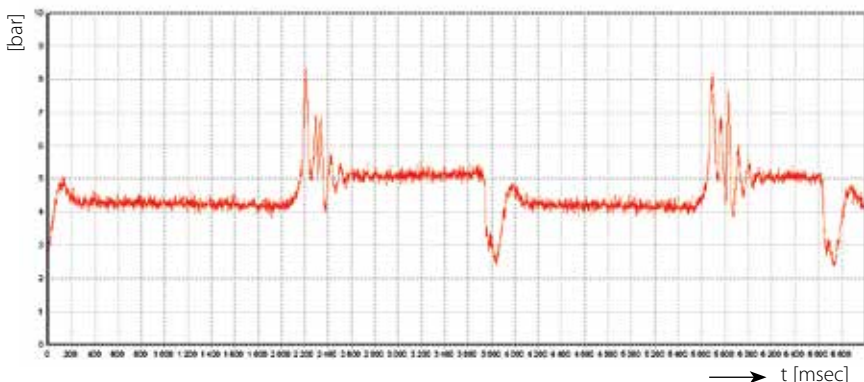
automatic urinal flushing

opto-electronic
– concealed
– on-wall
– group
conductivity
– for installation into urinals

automatic urinal flushing device

APIS 7

Characteristics
- high level of hygiene
- water saving.
- comfortable operation
- high reliability
- automatic selection of flushing
- possible to supply from a lithium battery or mains power

Performance description
The device optoelectrically scans people in front of the device. It does not react to passers-by. Depending on the setting and position of the user, the flushing performance is selected (pre-flush, main flush, post-flush, hygienic flush, cleaning flush). It is possible to choose the colour of the light signalling. The welcome light function is adjustable.

Basic data
- power supply: 230V, AC (6V, DC) power supply or 6V, Li-CRP2 battery in a PB1 case (special accessories). Some light functions are limited in the battery version.
- range: approx. 50cm (adjustable)
- possible pre-flush and post-flush
- front panel - white, durable plastic with a black visor for scanning and light signalling. Dimensions: 125 x 145 x 8 mm. Other colour and material versions are available at request and at an additional cost.
- parameter setting using a DO-5.1 remote control (special accessories), selected functions – mains selection (battery, visibility of signalling LED, flushing

Specialties
- archiving of operational statistics – operating time, number of individual flushes, etc.
- possible to reset counters
- possible pre-flush and post-flush
- possible of hygienic rinsing according to the setting after the last use
- adjustable stagnation time for hygienic flush
- external inlet for hygienic flush
- possible cleaning flush
- long STOP function for the effectiveness of detergents and disinfectants
- welcome range setting
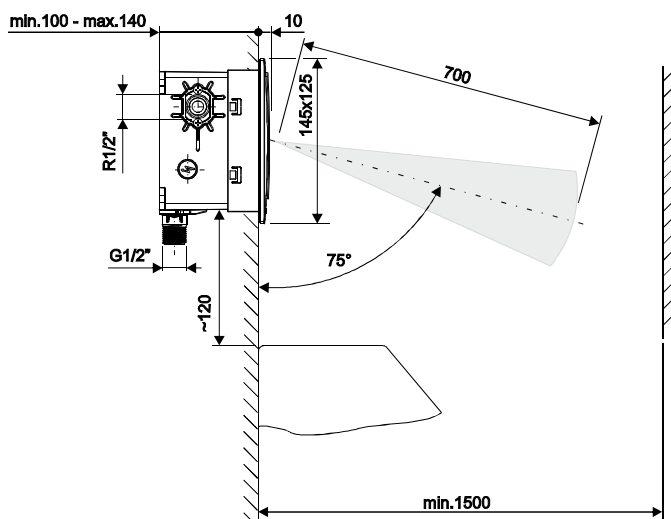
APIS 7   Order No. SE.01.32.41-000
The control part of the touchless urinal flushing device with the SANIT INEO BRIGHT white plastic cover, optoelectronics. Designed for mains power or battery supply (special accessories).

Special accessories
– power supply ZAS 230A/6DS30C (for group supply, max. 5 pcs APIS)	Order No. SE.06.21.31-000
– remote control DO-5.1	Order No. SE.09.02.12-210
– installation set APIS 6M-2	Order No. SE.10.06.04-025
– 6 V Li, CR-P2 battery	Order No. SE.06.16.01-000
– case for PB-1 batteries	Order No. SE.06.21.52-000

automatic urinal flushing device

APIS 6.1 EXT
APIS 6 M2
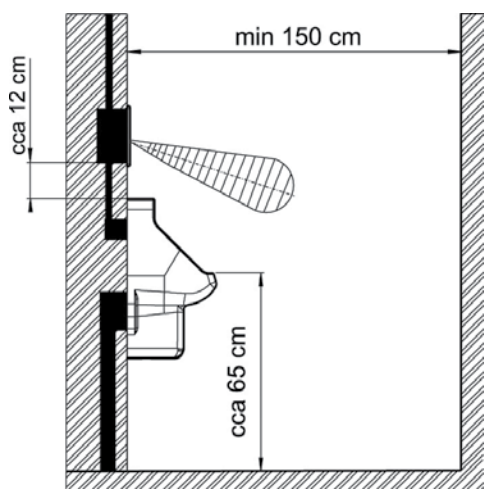
Characteristics
• water saving
• high level of hygiene
• stainless steel anti-vandalism design
• smaller dimensions, easy maintenance
• two-way communication by means of DO 5.1

Performance description
The device opto-electronically scans a person standing in front of a urinal continuously for a period of at least 4 seconds. Water is discharged after the person leaves. It does not respond to passing persons. The water volume is adjustable by the length of the valve opening/closing period. It flushes automatically every 12 hours after the last flush.

Basic data
– range:	min. 50 cm
	adjustable by means of DO-5.1 remote control
– flushing period:	approx. 4 sec., adjustable by means of DO-5.1 (4-15 sec.)
– power supply:	6 V Li CR-P2 battery
	ZAS230A/6DSC - max.1pc
	ZAS230A/6DS.30C - max.5 pcs
– battery life:	at 4000 openings/closures a month approx. 2 years
– water pressure:	0,05- 1,0 MPa (ideally 0,3-0,4 MPa)
– indications - LED	
– parameter setting by means of DO-5.1	

Special features
– side water supply
– hidden clamping of the front plate
– dirt filter, cylindrical closing valve
– especially small dimensions of the front stainless steel cover without sharp edges
– polystyrene defining cover for tiling with fixing screws

Dimensions
– electronics plate:	150 x 120 x 16 mm (h x w x d)
– installation boxes:	121 x 96 x 72 mm
– installation opening:	130 x 130 x 75 mm
– connection sizes:	G1/2" with a brass inside thread

min 150 cm

cca 12 cm

cca 65 cm

APIS 6.1 EXT   order No. SE.10.06.36–000
A concealed design, electronics with a fixing frame, finished with a connector for connecting a 6 V DC external power supply, a front stainless steel plate, an electromagnetic valve, fixing screws, a dirt filter. Without an installation box APIS 6 M2.

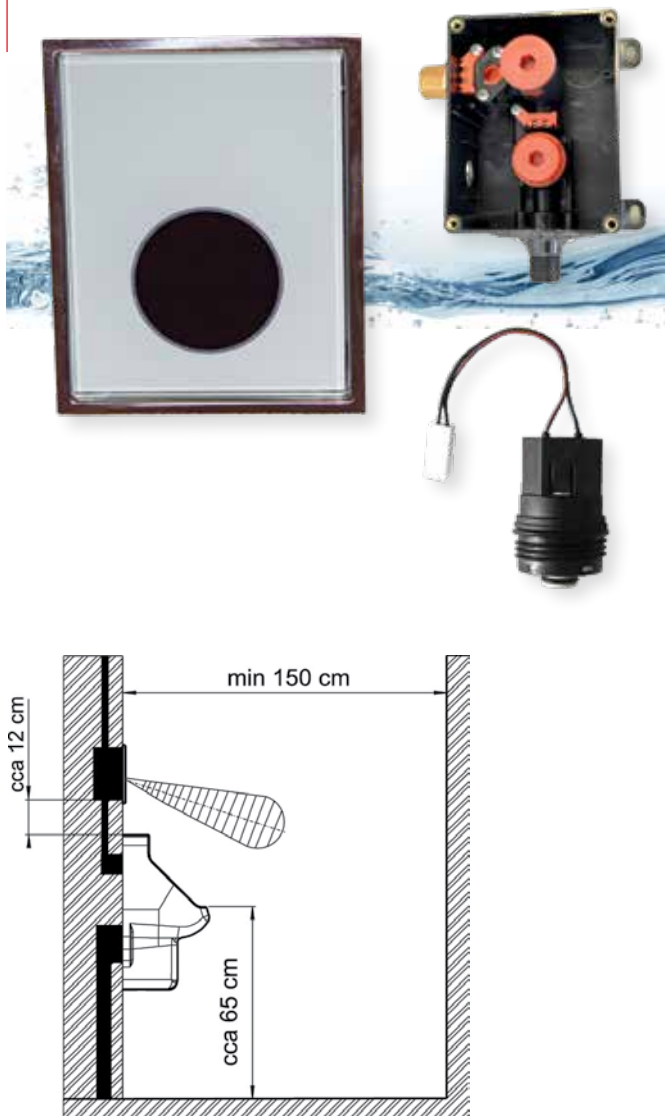### APIS 6 M2   order No. SE.10.06.04–025
An installation set for APIS 6 products, with a side water supply, suitable for installation in on-wall constructions and for bricking in with an installation box, inlet and outlet screwing, a cylindrical valve, a filter, a defining cover for tiling, with a valve seat plug for installation and flushing, a supply holder, an opening for an external power supply.

Special accessories
– ZAS230A/6DSC power supply (for individual supply, located in APIS 6 M)	order No. SE.06.21.30–000
– ZAS230A/6DS.30C power supply (for centralized supply, max. 5 pcs of APIS)	order No. SE.06.21.31–020
– 6 V Li CR-P2 battery	order No. SE.06.16.01–000
– PB1 battery case	order No. SE.06.21.52–000
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No.. SE.09.02.07–110
– APIS 6–5 M (an installation set with a top water supply)	order No. SE.10.06.04–021

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

automatic urinal flushing device

APIS 6.1SQG

Characteristics
• water saving
• high level of hygiene
• glass front plate
• smaller dimensions, easy maintenance
• two-way communication by means of DO 5.1

Performance description
The device opto-electronically scans a person standing in front of a urinal continuously for a period of at least 4 seconds. Water is discharged after the person leaves. It does not respond to passing persons. The water volume is adjustable by the length of the valve opening/closing period. Hygienic flush 0 to 108 hours, adjustable by means of
DO-45.12 remote control, basic setting - 108 hours.

Basic data
– range: min. 50 cm (from A4 white paper)
                             adjustable by means of DO-5.1 remote control
– flushing period: approx. 4 sec., adjustable by means
                             of DO-5.1 (4-15 sec.)
– power supply: 6 V Li CR-P2 battery
                             ZAS230A/6DSC - max.1pc
                             ZAS230A/6DS.30C - max.5 pcs
– battery life: at 4000 openings/closures a month
                             approx. 2 years
– water pressure: 0,05- 1,0 MPa
                             (ideally 0,3-0,4 MPa)
– indications – LED
– parameter setting by means of DO-5.1

Special features
– side water supply
– hidden clamping of the front plate
– dirt filter, cylindrical closing valve
– especially small dimensions of the glass front plate,
  in a stainless steel frame
– polystyrene defining cover for tiling with fixing screws

Dimensions
– electronics plate: 130 x 105 mm (h x w)
– installation boxes: 121 x 96 x 72 mm
– installation opening: 130 x 130 x 75 mm
– connection sizes: G1/2" with a brass inside thread

min 150 cm

cca 12 cm

cca 65 cm

APIS 6.1 SQG   order No. SE.01.32.04–020
A concealed design, electronics with a fixing frame, finished with a connector for connecting a 6 V DC external power supply or with a PB-1 battery case, a glass front plate, an electromagnetic valve, fixing screws, a dirt filter. A supply from a 6 V DC external power supply or 6 V Li battery.

APIS 6 M2   order No. SE.10.06.04–025
An installation set for APIS 6, with a side water supply, suitable for installation to on-wall constructions and for bricking in with an installation box, inlet and outlet screwing, a cylindrical valve, a filter, a defining cover for tiling, a valve seat plug for installation and flush, a supply holder, an opening for an external power supply.

Special accessories
– ZAS230A/6DSC power supply order   order No. SE.06.21.30–000
  (for individual supply, located in APIS 6 M)
– tápegység ZAS230A/6DS.30C   order No. SE.06.21.31–000
  (for centralized supply, max. 5 pcs of APIS)
– 6 V Li, CR–P2 battery   order No. SE.06.16.01–000
– DO–5.1 remote control   order No. SE.09.02.12–210
– DO–5.1U remote control   order No. SE.09.02.07–110
– APIS 6–5 M   order No. SE.10.06.04–021
  (an installation set with a top water supply)

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

automatic urinal flushing device

APIS 6TL W, APIS 6TL Cr, APIS 6TL CrM, APIS 6 TLN

Characteristics
• water saving
• various plate designs

Performance description
The device is switched on by pressing a button on the front plate. The flushing period is adjustable by means of a regulation screw.

Basic data
– flushing period: approx. 6 sec., adjustable from 3 to 20 sec.
– water pressure: 0,05- 1,0 MPa (ideally 0,3-0,4 MPa)

Special features
– side water supply
– hidden clamping of the front plate
– especially small dimensions of the front plate without sharp edges
– mechanically resistant plastic plate in three designs
– polystyrene defining cover for tiling with fixing screws
– easy replacement for an opto-electronic version (approx. 5 min)

Dimensions
– electronics plate: 162 x 125 x 11 mm (h x w x d)
– installation boxes: 121 x 96 x 72 mm
– installation opening: 130 x 130 x 75 mm
– connection sizes: G1/2" brass external thread

~12cm

~65cm

APIS 6TLW   order No. SE.10.06.04 –030
A concealed design, a white front plate with a push button, a cartridge pneumatic valve, a filter, a front cover holder and a wrench for cover removal. Without a APIS 6-M2 installation box.

APIS 6TL Cr   order No. SE.10.06.04 –040
A concealed design, a glossy chrome front plate with a push button, a cartridge pneumatic valve, filter, a filter, a front cover holder and a wrench for cover removal. Without a APIS 6-M2 installation box.

APIS 6TL CrM   order No. SE.10.06.04 –050
A concealed design, a matt chrome front plate with a push button, a cartridge pneumatic valve, a filter, a front cover holder and a wrench for cover removal. Without a APIS 6-M2 installation box.

APIS 6 TLN   order No. SE.10.06.04 –070
A concealed design, a stainless steel front plate with a push button, a cartridge pneumatic valve, a filter, a front cover holder and a wrench for cover removal. Without a APIS 6-M2 installtion box.

APIS 6 M2   order No. SE.10.06.04 –025
An installation set for APIS 6 products, suitable for installation to on-wall constructions and for bricking in with an installation box, inlet and outlet screwing, a valve plug for rough installation, a ball valve, a defining cover for tiling.
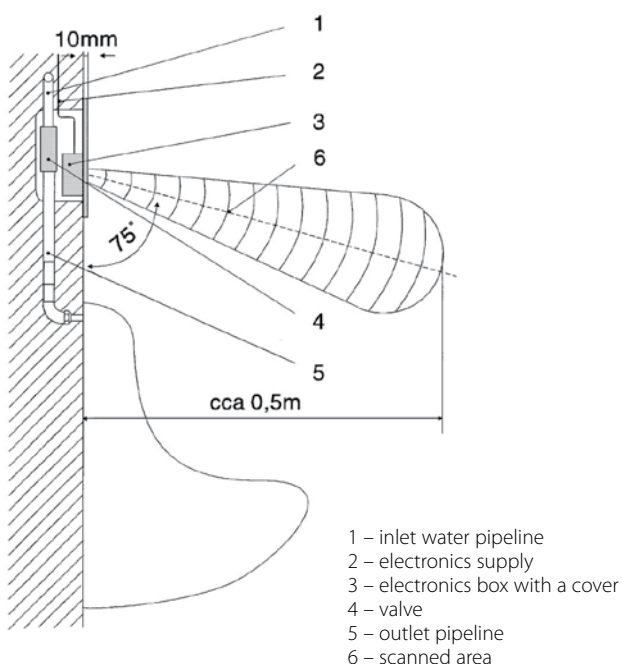
Special accessories
– APIS 6–5 M   order No. SE.10.06.04–021
  (an installation set with a top water supply)

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

automatic urinal flushing device

APIS 4.1 BGK
APIS 4 GK1

Characteristics
• water saving
• high level of hygiene
• stainless steel anti-vandalism design

Performance description
The device opto-electronically scans a person standing in front of a urinal continuously for a period longer than 5 seconds. Water is discharged after the person leaves. It does not respond to passing persons. The water volume is adjustable by the length of the valve opening/closing period. It flushes automatically every 12 hours after the last flush.

Basic data
– range:	min. 50 cm
	adjustable by means of DO-2 remote control
– flushing period:	10 sec., adjustable 5-15 sec.
	by means of DO-2
– power supply:	12 V~, 8VA, 6 V Li, CR-P2 (4.1 BGK)
– battery life:	at 4000 openings/closures a month
	approx. 2 years
– water pressure:	0,05- 1,0 MPa

– indication that the device is ready - LED
– indication of a person presence - LED
– parameter setting by means of DO-2

Special features
– dirt filter at the valve inlet
– solid stainless steel front plate without sharp edges
– hidden clamping of the front plate - anti-vandalism design

Dimensions
– electronics plate:	200 x 180 x 10 mm (h x w x d)
– installation boxes:	180 x 148 x 67 mm
– connection sizes:	G1/2"

1 – inlet water pipeline
2 – electronics supply
3 – electronics box with a cover
4 – valve
5 – outlet pipeline
6 – scanned area

APIS 4GK1   order No. SE.01.30.26 –012
A concealed design with an electromagnetic valve, an installation box, with height-adjustable screws and a ball valve. 12 V~ power supply.

APIS 4.1 BGK 1   order No. SE.01.31.00 –000
A concealed design with an electromagnetic valve, a frame, fixing screws, adjustable screws and an installation box, a PB-1 battery case. 6 V Li power supply.

Special accessories
– ZAS 50/12t – 12 V power supply	order No. SE.06.21.21–000
(for centralized supply, max. 5 pcs. of APIS)	
– TR 8 – 12 V power supply	order No. SE.06.14.01–000
(for individual supply)	
– 6 V Li, CR–P2 battery	order No. SE. 06.16.01–000
– DO–2 remote control	order No. SE.09.02.04–000
– DO–2U remote control	order No. SE.09.02.07–000
– ZAS230A/6DS.30C power supply	order No. SE.06.21.31–000
(for centralized supply, max. 5 pcs. of APIS)	

automatic urinal flushing device
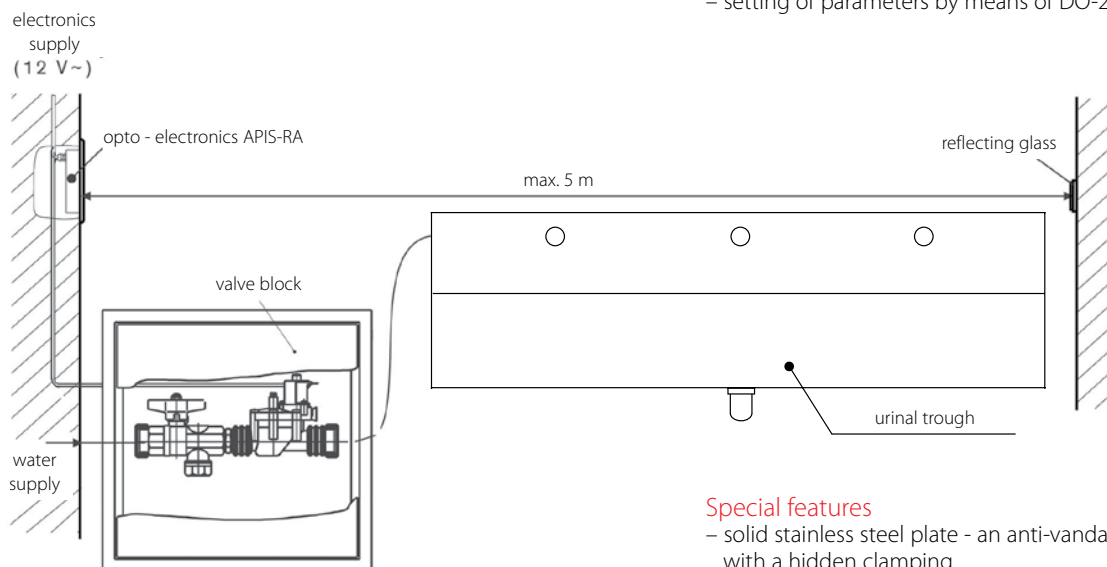
APIS RA

Characteristics
• cost effective solution
• water saving
• environmental hygiene
• stainless steel design

Performance description
The device scans a person standing in front of a urinal using a reflecting glass. After the person leaves the scanning zone, the device triggers flushing in all concerned urinals. In case of a constant presence of persons on a scanning line it flushes every 60 seconds. It flushes automatically every 12 hours after the last flush.

Basic data
– range: 5 m
– power supply: 12 V~, max 8VA
– water pressure: 0,05- 1,0 MPa
– flushing period: 10 sec., (adjustable)
– indication of a person presence   - LED
– indication that the device is ready - LED flow control
– fixture gate
– setting of parameters by means of DO-2 remote control

electronics supply (12 V~)

opto - electronics APIS-RA

reflecting glass

max. 5 m

valve block

urinal trough

water supply

Special features
– solid stainless steel plate - an anti-vandalism design with a hidden clamping
– mounting position of a reflecting glass indicated by LED
– a valve section shielded by means of a fixture gate

Dimensions
– valve block connection: G1"
– cover: 200 x 180 x 10 mm (h x w x d)
– fixture gate: 150 x 300 mm
– installation boxes: 180 x 148 x 67 mm

APIS RA   order No. SE.01.30.05–020
A concealed group urinal flushing device, complete with a reflecting glass, an fixture gate, a valve block with a closing valve, a filter and screwing, a 12 V~ external.

Special accessories
– ZAS 50/12t – 12 V power supply   order No. SE.06.21.21–000
– TR 8 – 12 V power supply   order No. SE.06.14.01–000
– DO–2 remote control   order No. SE.09.02.04–000
– DO–2U remote control   order No. SE.09.02.07–000

automatic urinal flushing device

APIS P 3.1

Characteristics
• substitution of pressure mechanic valves
• water saving
• chrome finish
• easy installation
• two-way communication by means of DO 5.1

Performance description
The device scans a person standing in front of a urinal continuously for period longer than 4 seconds. Water is discharged after the person leaves. The device does not respond to passers-by. Periodical flushing adjustable from 0 to 108 hours.

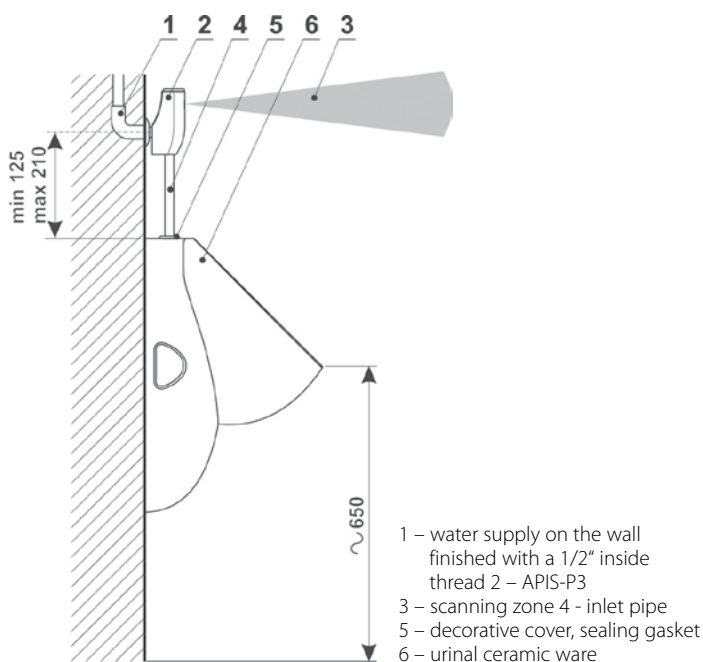### Basic data
– range: min. 60 cm
– power supply: 6 V Li, CR-P2
– battery life: approx. 2 years
                        with 4000 openings/closures a month
– flushing period: approx 11 sec.,
– max. flow: adjustable by a closing valve
– water pressure: 0,05- 1,0 MPa
– battery condition signalization -LED
– setting of parameters by means of DO-5.1 remote control

Special features
– dirt filter at the inlet closing valve
– use for urinals with an external top water supply
– inlet pipe - diameter of 18 mm
– flow restrictor - 20 l/min

Dimensions
– body: width - 45 mm, height - 135 mm
– connection: G 1/2"

1 – water supply on the wall finished with a 1/2" inside thread 2 – APIS-P3
3 – scanning zone 4 - inlet pipe
5 – decorative cover, sealing gasket
6 – urinal ceramic ware

APIS P 3.1   order No. SE.01.31.08–000
An on-wall flushing device with a closing valve, a dirt filter. An outlet pipe to the urinal - diameter of 18 mm with a rubber sealing and a chrome rosette.Supply with 6 V Li battery.
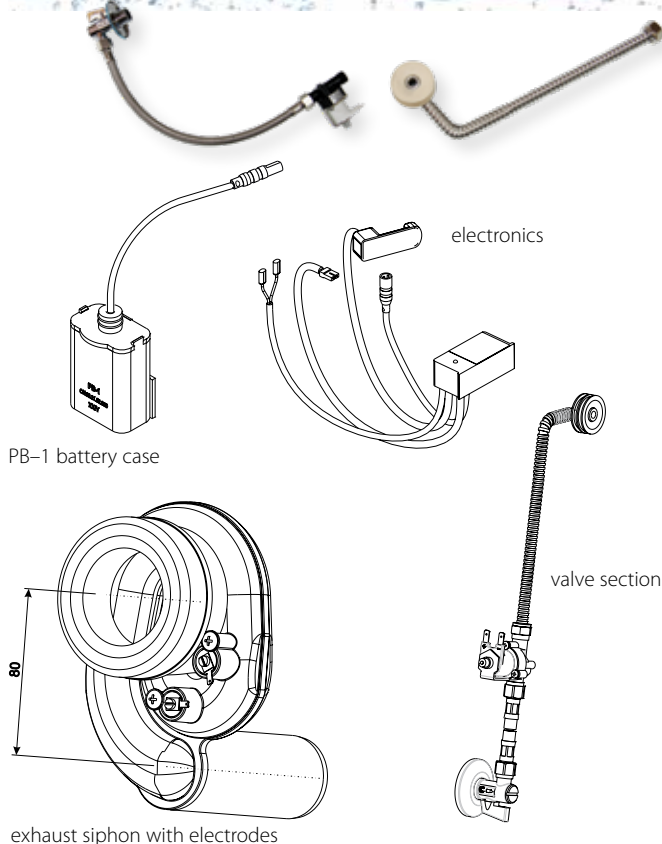
Special accessories
– 6 V Li, CR–P2 battery   order No. SE.06.16.01–000
– DO–5.1 remote control   order No. SE.09.02.12–210
– DO–5.1U remote control   order No. SE.09.02.07–110

automatic urinal flushing device

APIS 1 VS 9.1

Characteristics
• water saving
• high level of hygiene
• easy installation
• long life
• anti-vandalism design
• protection against siphon drying
• two-way communication by means of DO 5.1

Performance description
A conductivity sensor reacting to a change in water conductivity in a siphon. The conductivity change is indicated by a LED diode. After the last scanned conductivity change, the system waits for the period of approx. 14 seconds. Then it switches flushing. The amount of flushed water is adjustable by changing the flushing period. Hygienic flushing is adjustable from 0 to 108 hours following the last flush. It is performed by means of DO-5.1 remote control.

Basic data
– sensitivity: adjustable by means of DO-5.1
– power supply: 6 V Li battery
                            ZAS230A/6DS30C - max.5 pc.
                            ZAS230A/6DSC - max.1 pc
– battery life: approx. 4 years
                            with 4000 openings/closures a month
– water pressure: 0,05- 1,0 MPa (ideally 0,3-0,4 MPa)
– flushing period: approx.10 sec. (adjustable by means
                            of DO-5.1 within 3-23 s)
– parameter setting by means of DO-5.1 remote control,
                            through a scanning head, not necessary
                            to disassemble ceramic ware

Special features
– suitable for most ceramic ware with an exhaust siphon
   LED and acoustic signalling
– exhaust siphon - water consumption approx. 1 l
– suitable for ceramic ware without openings

electronics

PB–1 battery case

valve section

80

exhaust siphon with electrodes

APIS 1 VS 9.1   order No. SE. 01.30.33–000
A universal conductivity sensor with a two-way communication with DO-5.1, suitable for installation under urinal ceramic ware. It consists of a scanning head, an electro-magnetic valve, a corner valve with a dirt filter, inlet fittings for ceramic ware, an exhaust siphon with electrodes. Supply from a 6V DC external power supply or from a 6V Li battery.
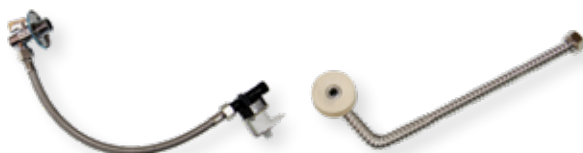
Special accessories
– 6V Li CRP2 battery	order No. SE.06.16.01–000
– PB–1 battery case	order No. SE.06.21.52–000
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110
– ZAS 230A/6DS30C power supply	order No. SE.06.21.31–020
(for d supply, max. 1 pcs. of APIS)	
– ZAS 230A/6DSC power supply	order No. SE.06.21.30–000
(for d supply, max. 1 pcs. of APIS)	
– connector with RAPP 600/2F cable	order No. SE.14.00.01–900

example of parameter setting

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

automatic urinal flushing device

APIS 1 VS 9.2

Characteristics
- water saving
- high level of hygiene
- easy installation
- long life
- anti-vandalism design
- protection against siphon drying
- two-way communication by means of DO-5.1

Performance description

A conductivity sensor reacting to a change in water conductivity in a siphon. The conductivity change is indicated by a LED diode. After the last scanned conductivity change, the system waits for the period of approx. 14 seconds. Then it switches flushing. The amount of flushed water is adjustable by changing the flushing period. Hygienic flushing is adjustable from 0 to 108 hours following the last flush. It is performed by means of DO-5.1 remote control.

Basic data
– sensitivity: adjustable by means of DO-5.1
– power supply: 6 V Li battery
                       ZAS230A/6DS30C - max.5 pc.
                       ZAS230A/6DSC - max.1 pc
– battery life: approx. 4 years
                       with 4000 openings/closures a month
– water pressure: 0,05- 1,0 MPa (ideally 0,3-0,4 MPa)
– flushing period: approx.10 sec.
                       (adjustable by means of DO-5.1 within 3-23 s)
– parameter setting by means of DO-5.1 remote control,
– for parameter setting ceramic ware disassembly necessary

Special features
– suitable for most ceramic ware with an exhaust siphon
  LED and acoustic signalling
– exhaust siphon - water consumption approx. 1 l
– suitable for ceramic ware without openings

an installation example

APIS 1 VS 9.2   **order No. SE. 01.30.33–092**

A universal conductivity sensor with a two-way communication with DO-5.1, suitable for installation under urinal ceramic ware. It consists of electronics without a scanning head, an electromagnetic valve, a corner valve with a dirt filter, inlet fittings, an exhaust siphon with electrodes. Supply from a 6V DC external power supply or from a 6V Li battery.

Special accessories
– 6V Li CRP2 battery   order No. SE.06.16.01–000
– PB–1 battery case   order No. SE.06.21.52–000
– DO–5.1 remote control   order No. SE.09.02.12–210
– DO–5.1U remote control   order No. SE.09.02.07–110
– ZAS 230A/6DS30C power supply   order No. SE.06.21.31–020
  (for centralized supply, max. 5 pcs. of APIS)
– ZAS 230A/6DSC power supply   order No. SE.06.21.30–000
  (for supply, max. 1 pcs. of APIS)
– connector with RAPP 600/2F cable   order No. SE.14.00.01–900

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

automatic urinal flushing device

APIS 1 VS 9.2–GOLEM, APIS 1 VS 9.2–GOLF
APIS 1 VS 9.2–APOLLO, APIS 1 VS 9.2–O–NOVO

APIS 1 VS 9–APOLLO

APIS 1 VS 9–GOLEM

APIS 1 VS 9–GOLF

APIS 1 VS 9–O.NOVO

electronics

double-sided adhesive tape

PB-1 battery case

valve section

exhaust siphon with electrodes

Characteristics
• water saving
• high level of hygiene
• easy installation
• long life
• anti-vandalism design
• protection against siphon drying

Performance description
A conductivity sensor reacting to a change in water conductivity in a siphon. The conductivity change is indicated by a LED diode. After the last registered conductivity change the system waits for a firmly set period of about 14 seconds. Then it switches flushing. The amount of flushed water is adjustable by changing the flushing period. Hygienic flushing is adjustable from 0 to 108 hours following the last flush. It is performed by means of DO-5.1 remote control.

Basic data
– sensitivity: adjustable by means of DO-5.1
– power supply: 6 V Li battery, CR-P2
                    ZAS230A/6DS30C – max.5 pcs
                    ZAS230A/6DSC – max.1 pc
– battery life: approx. 2 years with 4000
                    openings/closures a month
– water pressure: 0,05-1,0 MPa (ideally 0,3-0,4 MPa)
– flushing period: approx.10 sec.
                    (adjustable by means of DO-5.1 within 3-23 s)
– parameter setting by means of DO-5.1 remote control,
– for parameter setting ceramic ware disassembly necessary

Special features
– set with ceramic ware
– LED and acoustic signalling
– exhaust siphon - water consumption approx. 1 l

APIS 1 VS 9–GOLEM
APIS 1 VBS 9–GOLEM
A wall-mounted ceramic Golem urinal with electronics, a siphon with electrodes, a corner valve and an electromagnetic valve, a battery case. Supply from an external power supply or 6 V Li battery. With a battery version PB-11 battery case is included in a delivery.

Versions with different ceramic ware
APIS 1 VS 9.2–APOLLO
APIS 1 VBS 9.2–APOLLO
APIS 1 VS 9.2–GOLF
APIS 1 VBS 9.2–GOLF
APIS 1 VS 9.2–O.NOVO
APIS 1 VBS 9.2–O.NOVO
APIS 1 VS 9.2–VILA
APIS 1 VBS 9.2–VILA
APIS 1 VS 9.2–CAPRINO – without a cover
APIS 1 VBS 9.2–CAPRINO – without a cover
APIS 1 VS 9.9.22–LIVO
APIS 1 VBS 9.2–LIVO

Special accessories
|	
– 6 V Li, CR–P2 battery	order No. SE.06.16.01–000
– ZAS 230A/6DS30C power supply	order No. SE.06.21.31–020
(for centralized supply, max. 5 pcs. of APIS)	
– ZAS 230A/6DSC power supply	order No. SE.06.21.30–000
(for d supply, max. 1 pcs. of APIS)	
– connector with RAPP 600/2F cable	order No. SE.07.21.01–000
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110
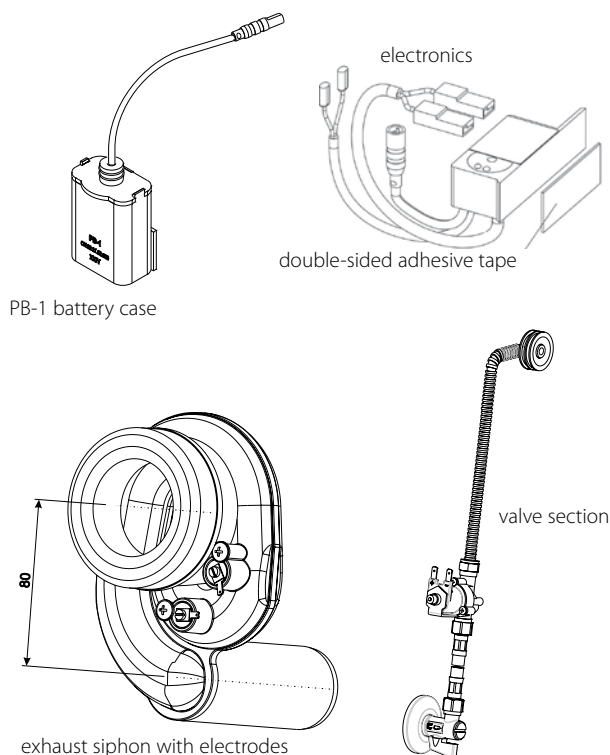
automatic outlet fixtures

opto-electronic
– stand-type
– wall-mounted
– on-wall
– stainless steel
– low pressure
– special fixtures
– thermostatic

Senzor®

automatic outlet fixture

WBS 2.1 G.1 ,
WBS 2.2 G.1, WBS 2.2 GX.1
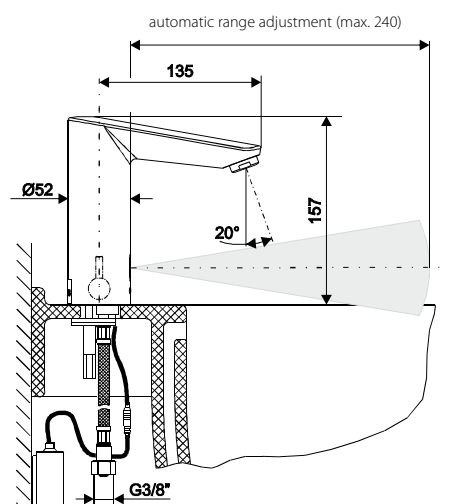
automatic range adjustment (max. 240)

135
Ø52
157
20°
G3/8"

Characteristics
• water and energy saving
• comfortable operation
• high level of hygiene
• chrome finish
• compact design with a mixer
• two-way communication with DO-5.1

Performance description
WBS optoelectrically scans the presence of hands in a washbasin. It switches off after 1–2 sec after taking hands out of the washbasin. In case an object remains in the scanning zone continuously for a period of approx. 1 min., it stops water automatically. The range is set automatically after connecting the power supply. This function can be switched off. Hygienic flush and thermal disinfection functions can be activated using the DO 5.1 remote control. Water temperature can be set using the mixer level on the faucet body, depending on the version.

Basic data
– range:	automatic setting, max. 24 cm
– power supply:	6 V DC or 6 V Li, CR–P2 battery
– faucet life:	approx. 2 years at 6000 cycles a month
– max. water temperature:	70°C/80°C – 10 min. during thermal disinfection
– water pressure:	0.05 – 1.0 MPa
– connection sizes:	G3/8"
– water flow:	6 l/min

Specialties:
– dirt filter and reverse valve at a connecting hose inlet
– protection against flooding
– easy access for faucet replacement
– fixing to a washbasin using a double fastener
– possible restriction of hot water flow
– hygienic flush can be activated from 0 to 108 hours
– duration of hygienic flush adjustable from 3 to 180 sec
– preset to 72 hours and 30 sec
– automatic correct hygienic flush
– possible activation of thermal disinfection

WBS 2.2 G.1   Order No. SE.02.61.12-000
Stand-type washbasin faucet with integrated electronics and an electromagnetic valve in the body, water mixer, connection hoses with dirt filters for hot and cold water. Termination using a RAPP connector. Supply from 6 V DC external power supply or 6V Li batteries.
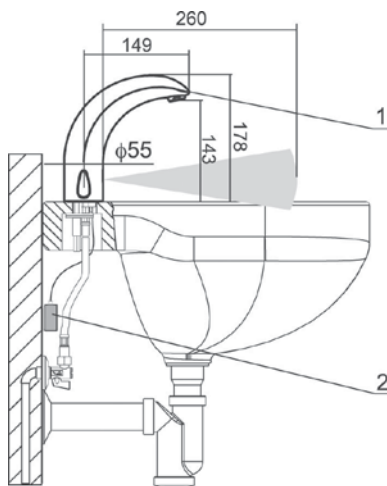
WBS 2.1 G.1   Order No. SE.SE.02.61.12-100
Stand-type washbasin faucet with integrated electronics and an electromagnetic valve in the body, no water mixing, connection hoses with dirt filters for hot and cold water. Termination using a RAPP connector. Supply from 6 V DC external power supply or 6V Li batteries.

WBS 2.2 GX.1   Order No. SE.SE.02.61.12-200
Stand-type washbasin faucet with integrated electronics and an electromagnetic valve in the body, hidden mixer, connection hoses with dirt filters for hot and cold water. Termination using a RAPP connector. Supply from 6 V DC external power supply or 6V Li batteries.

Special accessories:
– 6 V Li, CR-P2 battery	Order No. SE.06.16.01 -000
– case for PB-1 batteries	Order No. SE.06.21.52 -000
– power supply ZAS 230A/6DS30C (for power, max. 1 pc WBS)	Order No. SE.06.21.31 -000
– power supply ZAS 230A/6DS30C (for group power, max. 5 pcs WBS)	Order No. SE.06.21.31 -000
– connector with RAPP 600 / 2F cable	Order No. SE.14.00.01 -900
– remote control DO-5.1	Order No. SE.09.02.12 -210
– remote control DO-5.1	Order No. SE.09.02.12 -210
– extender / extension	Order No. PLU 14274

automatic outlet fixture

WBS 2.1 S.1 EURORA
WBS 2.2 S.1 EURORA, WBS 2.2 SX.1 EURORA

Characteristics
• water and energy saving
• comfortable operation
• high level of hygiene
• chrome finish
• compact design with a mixer
• two-way communication by means of DO 5.1

Performance description:
WBS opto-electrically scans the presence of hands in a wash basin. It switches off after 1-2 sec. after taking hands out of the wash basin. In case an object remains in the scanning zone continuously for a period of approx. 1 min., it stops water automatically. This function can be switched off. The range is set automatically after connecting the power supply. Hygienic flush and thermal disinfection functions can be activated by means of DO-5.1 remote control. Water temperature can be set using a mixer lever on a battery body, depending on a version.

Basic data
– range: automatic setting, max. 24 cm
– power supply: 6 V DC or 6 V Li, CR-P2 battery
– battery life: approx. 2 years at 6000 cycles a month
– max. water temperature: 70 °C/ 80 °C - 10 min. during thermal – disinfection
– water pressure: 0,05-1,0 MPa (ideally 0,3-0,4 MPa)
– connection sizes: G3/8"
– water flow: 6 l/min

Special features
– dirt filter and reverse valve at a connecting hose inlet protection against flooding
– easy access for a battery replacement
– anti-vandalism construction
– fixing to a wash basin using a double fastener
– possible control of wash basin closure
– possible delivery with a hidden mixer, instead of a mixer lever
– possible restriction of hot water flow
– hygienic flush activated from 0-108 hours
– flushing period is adjustable from 5-180 seconds
– pre-set for 72 hours and 30 seconds
– possible activation of thermal disinfection

1 – wash basin faucet
2 – battery case

WBS 2.2 S.1 EURORA   order No. SE.02.60.46–000
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the outlet, a water mixer, connection hoses with dirt filters for hot and cold water. Termination using a RAPP connector. Supply from 6 V DC external power supply or 6V Li batteries.

WBS 2.2 SX.1 EURORA   order No. SE.02.60.46–020
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the outlet, a hidden water mixer, connection hoses with dirt filters for hot and cold water. Termination using a RAPP connector. Supply

WBS 2.1 S.1 EURORA   order No. SE.02.60.46–010
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the outlet, for cold or mixed water with a connection hose and a dirt filter. Termination using a RAPP connector. Supply from 6 V DC external power supply or 6V Li battery.

Special accessories
– 6 V Li, CR–P2 battery   order No. SE.06.16.01–000
– PB–1 battery case   order No. SE.06.21.52–000
– ZAS 230/6ST.1 power supply   order No. SE.06.21.34–010
  (for centralized supply, max. 1 pc. of WBS)
– ZAS 230A/6DS30C power supply   order No. SE.06.21.31–020
  (for supply, max. 3 pcs. of WBS)
– connector with RAPP 600/2F cable   order No. SE.14.00.01–900
– DO–5.1 remote control   order No. SE.09.02.12–210
– DO–5.1U remote control   order No. SE.09.02.07–110

automatic outlet fixture

WBS 3.1 EURORA, WBS 3.2 EURORA
WBS 3.1B EURORA, WBS 3.2B EURORA

Characteristics
- water and energy saving
- comfortable operation
- high level of hygiene
- chrome finish
- parameter setting by means of a remote control
- electronics integrated in the outlet

Performance description
WBS opto-electrically scans the presence of hands in a wash basin. It switches off after 1-2 sec. after taking hands out of the wash basin. In case an object remains in the scanning zone continuously for a period of approx. 1 min., it stops water automatically. The range is set automatically after connecting the power supply. Hygienic flush function can be activated by means of DO-2 remote control.

Basic data
- range: automatic setting, max. 24 cm
- power supply: 12 V DC or 6 V Li, CR-P2 battery
- battery life: approx. 2 years at 6000 cycles a month
- max. water temperature: 70 °C
- water pressure: 0,05-1,0 MPa
- connection sizes: G3/8"

Special features
- setting of temperature or flow in corner valves
- dirt filter at a connection hose inlet
- protection against flooding
- protection against flooding
- hygienic flush activated from 0-108 hours
- flushing period is adjustable from 5-180 seconds
- pre-set for 108 hours and 5 seconds
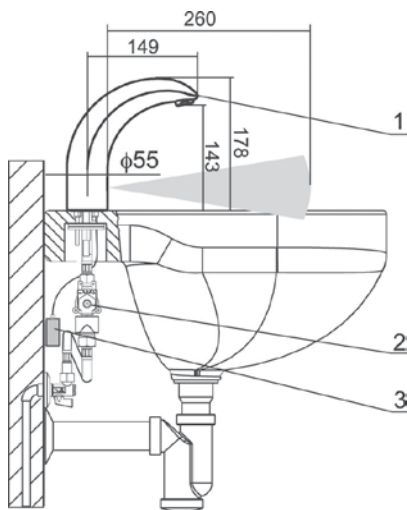
1 – wash basin faucet
2 – electromagnetic valve
3 – battery case

WBS 3.1 EURORA — order No. SE.02.52.89–000
Stand-type wash-basin faucet with integrated electronics in the outlet, an electromagnetic valve, a connection hose and a dirt filter, for cold or mixed water. 12 V~ external power supply.

WBS 3.2 EURORA — order No. SE.02.52.90–000
Stand-type wash-basin faucet with integrated electronics in the outlet, an electromagnetic valve, a water mixer, connection hoses and dirt filters, for hot and cold water. 12 V~ external power supply.

WBS 3.1B EURORA — order No. SE.02.52.91–000
Stand-type wash-basin faucet with integrated electronics in the outlet, an electromagnetic valve, a PB-1 battery case, a connection hose and a dirt filter, for cold or mixed water. 6 V Li battery power supply.
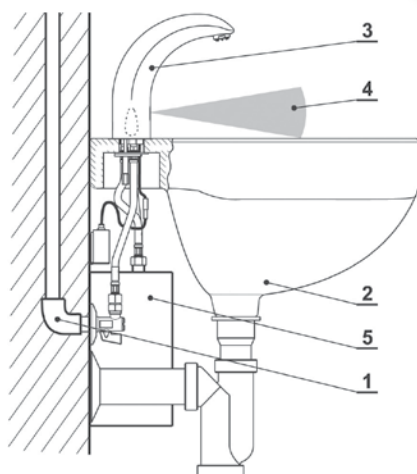
WBS 3.2B EURORA — order No. SE.02.52.92–000
Stand-type wash-basin faucet with integrated electronics in the outlet, an electromagnetic valve, a PB-1 battery case a water mixer, connection hoses and dirt filters, for hot and cold water. 6 V Li battery power supply.

Special accessories
- 6 V Li, CR–P2 battery — order No. SE.06.16.01–000
- ZAS 50/12t power supply — order No. SE.06.21.21–000
  (for centralized supply, max. 6 pcs. of WBS)
- DO–2 remote control — order No. SE.09.02.04–000
- DO–2U remote control — order No. SE.09.02.07–000

automatic outlet fixture for low-pressure heaters

WBS 2.2H.1 EURORA
WBS 2.2HX.1 EURORA

1 – inlet water piping
2 – wash basin
3 – wash basin faucet for low-pres-
sure heaters
4 – scanning zone
5 – low-pressure heater

Characteristics
• water and energy saving
• comfortable operation
• high level of hygiene
• chrome finish
• compact design with a mixer
• for use with a low-pressure heater
• two-way communication by means of DO 5.1
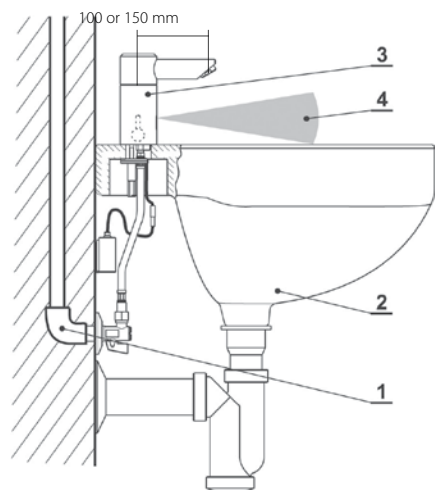
Performance description:
WBS opto-electrically scans the presence of hands in a wash basin. It switches off after 1-2 sec. after taking hands out of the wash basin. In case an object remains in the scanning zone continuously for a period of approx. 1 min., it stops water automatically. This function can be switched off. The range is set automatically after connecting the power supply. Hygienic flush and thermal disinfection functions can be activated by means of DO-5.1 remote control. Water temperature can be set using a mixer lever on a battery body, depending on a version.

Basic data
– range:	automatic setting, max. 24 cm
– power supply:	6 V DC or 6 V Li, CR-P2 battery
– battery life:	approx. 2 years at 6000 cycles a month
– max. water temperature:	70 °C/ 80 °C - 10 min. during thermal disinfection
– water pressure:	0,05- 1,0 MPa
– water flow:	4 l/min
– connection sizes:	G3/8"

Special features
– dirt filter and flow restrictor in front of the inlet hose
– protection against flooding
– easy access for a battery replacement
– anti-vandalism construction
– fixing to a wash basin using a double fastener
– aerator for low-pressure fixtures
– possible restriction of hot water flow
– hygienic flush activated from 0-108 hours
– flushing period is adjustable from 5-180 seconds
– pre-set for 72 hours and 30 seconds
– possible activation of thermal disinfection

WBS 2.2H.1 EURORA   order No. SE.02.60.06–100
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the outlet, a water mixer, connection hoses with a dirt filter and a 4 l/min water flow restrictor. Termination using a RAPP connector for connecting PB-1 battery case or 6 V DC external power supply.

WBS 2.2 HX.1 EURORA   order No. SE.02.60.06–110
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the outlet, a hidden water mixer, connection hoses with a dirt filter and a 4 l/min water flow restrictor. Termination using a RAPP connector for connecting 6 V DC external power supply or PB-1 battery case.

Special accessories
– 6 V Li, CR–P2 battery	order No. SE.06.16.01–000
– PB–1 battery case	order No. SE.06.21.52–000
– ZAS 230/6ST.1 power supply (for centralized supply, max. 1 pc. of WBS)	order No. SE.06.21.34–010
– ZAS 230A/6DS30C power supply (for supply, max. 3 pcs. of WBS)	order No. SE.06.21.31–020
– connector with RAPP 600/2F cable	order No. SE.14.00.01–900
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110

automatic outlet fixture

WBS 2.2 A.1, WBS 2.2 A.1–150, WBS 2.1 A.1, WBS 2.1 A.1–150 , WBS 2.2 AX.1, WBS 2.2 AX.1–150

Characteristics
- water and energy saving
- comfortable operation
- high level of hygiene
- chrome finish
- compact design with a mixer
- two-way communication by means of DO-5.1

Performance description:
WBS opto-electrically scans the presence of hands in a wash basin. It switches off after 1-2 sec. after taking hands out of the wash basin. In case an object remains in the scanning zone continuously for a period of approx. 1 min., it stops water automatically. This function can be switched off. The range is set automatically after connecting the power supply. Hygienic flush and thermal disinfection functions can be activated by means of DO-5.1 remote control. Water temperature can be set using a mixer lever on a battery body, depending on a version.

Basic data
– range:	automatic setting, max. 24 cm
– power supply:	6 V DC or 6 V Li, CR-P2 battery
– battery life:	approx. 2 years at 6000 cycles a month
– max. water temperature:	70 °C/ 80 °C - 10 min. during thermal disinfection
– water pressure:	0,05-1,0 MPa
– connection sizes:	G3/8"
– water flow:	6 l/min

Special features
- dirt filter and reverse valve at a connecting hose inlet
- protection against flooding
- easy access for a battery replacement
- anti-vandalism construction
- fixing to a wash basin using a double fastener
- possible restriction of hot water flow
- hygienic flush activated from 0-108 hours
- flushing period is adjustable from 5-180 seconds
- pre-set for 72 hours and 30 seconds
- possible activation of thermal disinfection
- possible delivery with a hidden mixer

100 or 150 mm

1 – inlet water piping
2 – wash basin
3 – wash basin faucet
4 – scanning zone

WBS 2.2 A.1   order No. SE.02.60.10–110
**WBS 2.2 A.1–150**   order No. SE.02.60.10–130
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the body, a water mixer, connection hoses with dirt filters, for hot and cold water. Termination using a RAPP connector. 6 V DC power supply or 6 V Li battery.

WBS 2.1 A.1   order No. SE.02.60.10–120
WBS 2.1 A.1–150   order No. SE.02.60.10–140
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the body, not possible to mix water, connection hoses with a dirt filter for cold water. Termination using a RAPP connector. 6 V DC power supply or 6 V Li battery.

WBS 2.2 AX.1   order No. SE.02.60.59–000
WBS 2.2 AX.1–150   order No. SE.02.60.59–010
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the body, a hidden water mixer, connection hoses with dirt filters, for hot and cold water. Termination using a RAPP connector. 6 V DC power supply or 6 V Li battery.

Special accessories
– 6 V Li, CR–P2 battery	order No. SE.06.16.01–000
– PB–1 battery case	order No. SE.06.21.52–000
– ZAS 230/6ST.1 power supply (for supply, max. 1 pc. of WBS)	order No. SE.06.21.34–010
– ZAS 230A/6DS30C power supply (for centralized supply, max. 3 pcs. of WBS)	order No. SE.06.21.31–020
– connector with RAPP 600/2F cable	order No. SE.14.00.01–900
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

automatic outlet fixture

WBS 2.1AV.1–150, WBS 2.1AV 2.1–150
WBS 2.2 AV.1–150, WBS 2.2 AV 2.1–150
WBS 2.2 AV.1X–150, WBS 2.2 AV 2.1X–150
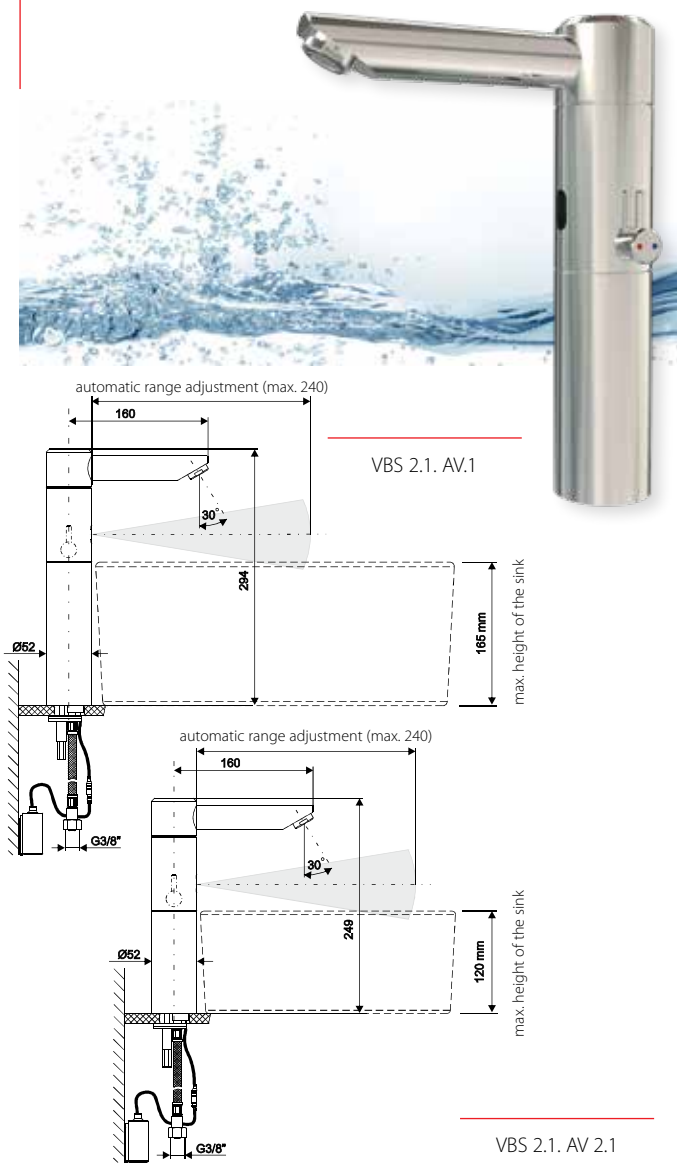
Characteristics
- water and energy saving
- comfortable operation
- high level of hygiene
- chrome finish
- compact design with a mixer
- two-way communication with DO-5.1
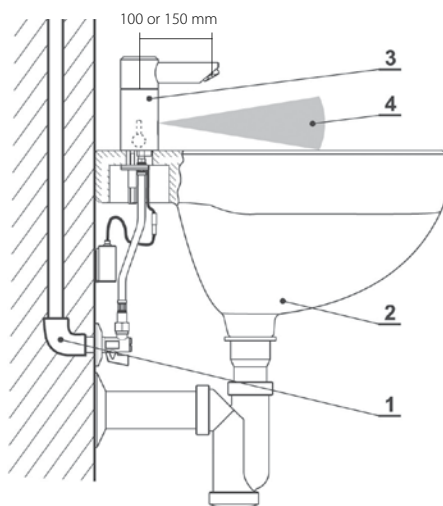- height extended by 165 mm or 120 mm for countertop washbasins

Performance description

WBS optoelectrically scans the presence of hands in a washbasin. It switches off after 1–2 sec after taking hands out of the washbasin. In case an object remains in the scanning zone continuously for a period of approx. 1 min., it stops water automatically. The range is set automatically after connecting the power supply. This function can be switched off. Hygienic flush and thermal disinfection functions can be activated using the DO 5.1 remote control. Water temperature can be set using the mixer level on the faucet body, depending on the version.

Basic data
– range:	automatic setting, max. 24 cm
– power supply:	6 V DC or 6 V Li, CR–P2 battery
– faucet life:	approx. 2 years at 6000 cycles a month
– max. water temperature:	70°C/80°C – 10 min. during thermal disinfection
– water pressure:	0.05 – 1.0 MPa
– connection sizes:	G3/8"
– water flow:	6 l/min

Specialties
- can be used for countertop washbasins
- dirt filter and reverse valve at a connecting hose inlet
- protection against flooding
- easy access for faucet replacement
- fixing to a washbasin using a double fastener
- possible restriction of hot water flow
- hygienic flush can be activated from 0 to108 hours
- duration of hygienic flush adjustable from 3 to 180 sec
- preset to 72 hours and 30 sec
- automatic correct hygienic flush
- possible activation of thermal disinfection
- possible delivery with a hidden mixer

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automatic range adjustment (max. 240)

160

30°

294

Ø52

165 mm

max. height of the sink

G3/8"

VBS 2.1. AV.1

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automatic range adjustment (max. 240)

160

30°

249

Ø52

120 mm

max. height of the sink

G3/8"

VBS 2.1. AV 2.1

WBS 2.2 AV.1-150   Order No. SE.02.61.13-000
WBS 2.2 AV 2.1-150   Order No. SE.02.71.21-000
Stand-type washbasin faucet with integrated electronics and an electromagnetic valve in the body, water mixer, connection hoses with dirt filters for hot and cold water. Termination using a RAPP connector. Supply from 6 V DC external power supply or 6V Li batteries.

WBS 2.1 AV.1-150   Order No. SE.02.61.13-100
WBS 2.1 AV 2.1-150   Order No. SE.07.71.21-100
Stand-type washbasin faucet with integrated electronics and an electromagnetic valve in the body, no water mixing, connection hoses with dirt filters for hot and cold water. Termination using a RAPP connector. Supply from 6 V DC external power supply or 6V Li batteries.

WBS 2.2 AV.1X-150   Order No. SE.02.61.13-200
WBS 2.2 AV 2.1X-150   Order No. SE.02.71.21-000
Stand-type washbasin faucet with integrated electronics and an electromagnetic valve in the body, hidden mixer, connection hoses with dirt filters for hot and cold water. Termination using a RAPP connector. Supply from 6 V DC external power supply or 6V Li batteries.

Special accessories:
– 6 V Li, CR-P2 battery	Order No. SE.06.16.01-000
– case for PB-1 batteries	Order No. SE.06.21.52-000
– power supply ZAS 230A/6DS30C (for power, max. 1 pc WBS)	Order No. SE.06.21.31-000
– power supply ZAS 230A/6DS30C (for group power, max. 5 pcs WBS)	Order No. SE.06.21.31-000
– connector with RAPP 600 / 2F cable	Order No. SE.14.00.01-900
– remote control DO-5.1	Order No. SE.09.02.12-210
– remote control DO-5.1	Order No. SE.09.02.12-210
– extender / extension	Order No. PLU 14274

    A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

automatic outlet fixture – stainless steel

WBS 2.1 N.1, WBS 2.1 N.1–150, WBS 2.2 N.1, WBS 2.2 N.1–150, WBS 2.2 NX.1, WBS 2.2 NX.1–150

Characteristics
- water and energy saving
- comfortable operation
- high level of hygiene
- stainless steel
- compact design with a mixer
- two-way communication by means of DO 5.1

Performance description:
WBS opto-electrically scans the presence of hands in a wash basin. It switches off after 1-2 sec. after taking hands out of the wash basin. In case an object remains in the scanning zone continuously for a period of approx. 1 min., it stops water automatically. This function can be switched off. The range is set automatically after connecting the power supply. Hygienic flush and thermal disinfection functions can be activated by means of DO-5.1 remote control. Water temperature can be set using a mixer lever on a battery body, depending on a version.

Basic data
– range:	automatic setting, max. 24 cm
– power supply:	6 V DC or 6 V Li, CR-P2 battery
– battery life:	approx. 2 years at 6000 cycles a month
– max. water temperature:	70 °C/ 80 °C - 10 min. during thermal disinfection
– water pressure:	0,05- 1,0 MPa
– connection sizes:	G3/8"
– water flow:	6 l/min

100 or 150 mm

1 – inlet water piping
2 – wash basin
3 – wash basin faucet
4 – scanning zone

Special features
- dirt filter and reverse valve at a connecting hose inlet
- protection against flooding
- easy access for a battery replacement
- anti-vandalism construction
- fixing to a wash basin using a double fastener
- possible restriction of hot water flow
- possible restriction of hot water flow
- hygienic flush activated from 0-108 hours
- flushing period is adjustable from 5-180 seconds
- pre-set for 72 hours and 30 seconds
- possible activation of thermal disinfection
- possible delivery with a hidden mixer

WBS 2.2 N.1   order No. SE.02.60.57–000
WBS 2.2 N.1–150   order No. SE.02.60.57–010
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the outlet, a water mixer, connection hoses with a dirt filter, for hot and cold water. Termination using a RAPP connector. 6 V DC power supply or 6 V Li battery.

WBS 2.2 NX.1   order No. SE.02.60.57–040
WBS 2.2 NX.1–150   order No. SE.02.60.57–050
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the outlet, a hidden water mixer, connection hoses with a dirt filter, for hot and cold water. Termination using a RAPP connector. 6 V DC power supply or 6 V Li battery.

WBS 2.1 N.1   order No. SE.02.60.57–020
WBS 2.1 N.1–150   order No. SE.02.60.57–030
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the outlet, for cold or mixed water with connection hoses with a dirt filter. Termination using a RAPP connector. 6 V DC power supply or 6 V Li battery.
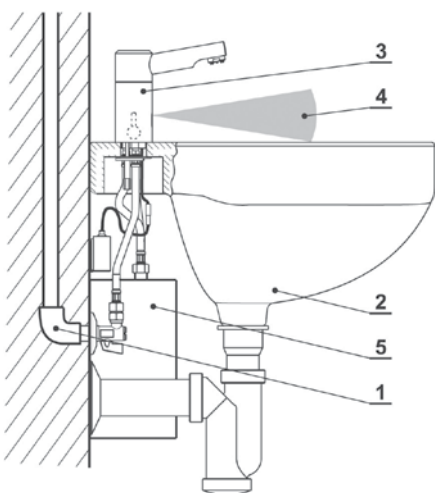
Special accessories
– 6 V Li, CR–P2 battery	order No. SE.06.16.01–000
– PB–1 battery case	order No. SE.06.21.52–000
– ZAS 230/6ST.1 power supply (for supply, max. 1 pc. of WBS)	order No. SE.06.21.34–010
– ZAS 230A/6DS30C power supply (for centralized supply, max. 3 pcs. of WBS)	order No. SE.06.21.31–020
– connector with RAPP 600/2F cable	order No. SE.14.00.01–900
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

automatic outlet fixture for low-pressure heaters

WBS 2.2 HN.1
WBS 2.2 HNX.1

1 – inlet water piping
2 – wash basin
3 – wash basin faucet for low-pressure heaters
4 – scanning zone
5 – low-pressure heater

Characteristics
• water and energy saving
• comfortable operation
• high level of hygiene
• stainless steel
• compact design with a mixer
• for use with a low-pressure heater
• two-way communication by means of DO 5.1

Performance description:
WBS opto-electrically scans the presence of hands in a wash basin. It switches off after 1-2 sec. after taking hands out of the wash basin. In case an object remains in the scanning zone continuously for a period of approx. 1 min., it stops water automatically. This function can be switched off. The range is set automatically after connecting the power supply. Hygienic flush and thermal disinfection functions can be activated by means of DO-5.1 remote control. Water temperature can be set using a mixer lever on a battery body, depending on a version.

Basic data
– range: automatic setting, max. 24 cm
– power supply: 6 V DC or 6 V Li, CR-P2 battery
– battery life: approx. 2 years at 6000 cycles a month
– max. water temperature: 70 °C/ 80 °C - 10 min.
                                    during thermal disinfection
– water pressure: 0,05- 1,0 MPa
– water flow: 4 l/min
– connection sizes: G3/8"

Special features
– dirt filter and flow restrictor in front of the inlet hose
– protection against flooding
– easy access for a battery replacement
– anti-vandalism construction
– fixing to a wash basin using a double fastener
– aerator for low-pressure fixtures
– possible restriction of hot water flow
– hygienic flush activated from 0-108 hours
– flushing period is adjustable from 5-180 seconds
– pre-set for 72 hours and 30 seconds
– possible activation of thermal disinfection

WBS 2.2HN.1   order No. SE.02.60.80–010
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the outlet, a water mixer, connection hoses with a dirt filter and a 4 l/min water flow restrictor. Termination using a RAPP connector for connecting PB-1 battery case or 6 V DC external power supply.

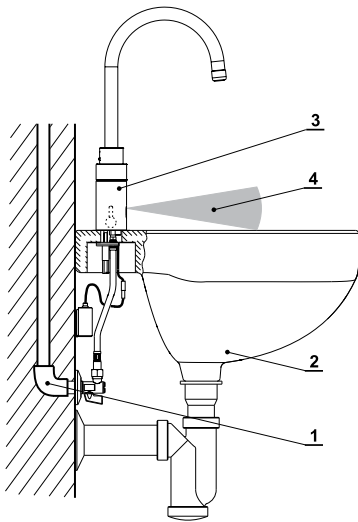### WBS 2.2 HNX.1   order No. SE.02.60.80–020
Stand-type wash-basin faucet with integrated electronics and an electromagnetic valve in the outlet, a hidden water mixer, connection hoses with a dirt filter and a 4 l/min water flow restrictor. Termination using a RAPP connector for connecting 6 V DC external power supply or PB-1 battery case.

Special accessories
– 6 V Li, CR–P2 battery   order No. SE.06.16.01–000
– PB–1 battery case   order No. SE.06.21.52–000
– power supply ZAS 230/6ST.1   order No. SE.06.21.34–010
  (for supply, max. 1 pc. of WBS))
– power supply ZAS 230A/6DS30C   order No. SE.06.21.31–020
  (for centralized supply, max. 3 pcs. of WBS)
– connector with RAPP 600/2F cable   order No. SE.14.00.01–900
– DO–5.1 remote control   order No. SE.09.02.12–210
– DO–5.1U remote control   order No. SE.09.02.07–110

automatic outlet fixture

WBS 2.2–L1.1, WBS 2.2–L2.1, WBS 2.1–L1.1, WBS 2.1–L2.1, WBS 2.2 X–L1.1,WBS 2.2 X–L2.1

Characteristics
• water and energy saving
• comfortable operation
• high level of hygiene
• chrome finish
• compact design with a mixer
• two-way communication by means of DO 5.1

Performance description:

WBS-L1 opto-electrically scans the presence of hands in a wash basin. It switches off after 1-2 sec. after taking hands out of the wash basin. In case an object remains in the scanning zone continuously for a period of approx. 1 min., it stops water automatically. The range is set automatically after connecting the power supply. Hygienic flush and thermal disinfection functions can be activated by means of DO-5.1 remote control. Water temperature can be set using a mixer lever on a battery body. **A fixed outlet in the body.**

WBS-L2 discharges water by a hand motion in the scanning zone or it stops water by a repeated hand motion in front of the sensor (START-STOP function). The flow period is standardly set to 20 seconds. Water temperature can be set using a mixer lever on a battery body. Hygienic flush and thermal disinfection functions can be activated by means of DO-5.1 remote control. **A rotating outlet in the body.**

Basic data
– range: automatic setting, max. 24 cm
– power supply: 6 V DC or 6 V Li, CR-P2 battery
– battery life: approx. 2 years at 6000 cycles a month
– max. water temperature: 70 °C/ 80 °C – 10 min.
                              during thermal disinfection
– water pressure: 0,05- 1,0 MPa
– connection sizes: G3/8"
– water flow: 6 l/min

Special features
– dirt filter and reverse valve at a connecting hose inlet
– protection against flooding
– easy access for a battery replacement
– possible restriction of hot water flow
– hygienic flush activated from 0-108 hours
– flushing period is adjustable from 5-180 seconds
– pre-set for 72 hours and 30 seconds
– possible activation of thermal disinfection

1 – inlet water piping
2 – wash basin
3 – wash basin faucet
4 – scanning zone
    WBS-2.2-L1 - long range
    WBS-2.2-L2 - short range
    START/STOP function

WBS 2.2–L1.1   order No. SE.02.60.81–010
WBS 2.2–L2.1   order No. SE.02.60.81–000
Stand-type wash basin faucet with a fixed WBS L1 outlet, a rotating WBS L2 outlet, integrated electronics and an electromagnetic valve in the outlet, a water mixer, connection hoses with dirt filters for hot and cold water. Termination using a RAPP connector for connecting PB-1 battery case or 6 V DC external power supply. 6 V DC power supply or 6 V Li battery.

WBS 2.2X–L1.1   order No. SE.02.60.81–060
WBS 2.2X–L2.1   order No. SE.02.60.81–050
Stand-type wash basin faucet with a fixed WBS L1 outlet, a hidden rotating WBS L2 outlet, integrated electronics and an electromagnetic valve in the outlet, a hidden water mixer, connection hoses with dirt filters for hot and cold water. Termination using a RAPP connector for connecting PB-1 battery case or 6 V DC external power supply. 6 V DC power supply or 6 V Li battery.

WBS 2.1–L1.1   order No. SE.02.60.81–040
WBS 2.1–L2.1   order No. SE.02.60.81–030
Stand-type wash basin faucet with a fixed WBS L1 outlet, a rotating WBS L2 outlet, integrated electronics and an electromagnetic valve in the outlet, a connection hose with a dirt filter for cold water. Termination using a RAPP connector for connecting PB-1 battery case or 6 V DC external power supply. 6 V DC power supply or 6 V Li battery.

Special accessories
– 6 V Li, CR–P2 battery   order No. SE.06.16.01–000
– PB–1 battery case   order No. SE.06.21.52–000
– ZAS 230/6ST.1 power supply   order No. SE.06.21.34–010
(for supply, max. 1 pc. of WBS)
– ZAS 230A/6DS30C power supply   order No. SE.06.21.31–020
(for centralized supply, max. 3 pcs. of WBS)
– connector with RAPP 600/2F cable order No. SE.14.00.01–900
– DO–5.1 remote control   order No. SE.09.02.12–210
– DO–5.1U remote control   order No. SE.09.02.07–110
– double-bent outlet for L2   order No. SE.07.20.23–000

automatic outlet fixture

WBS P3.1–160.1
WBS P3.1–200.1
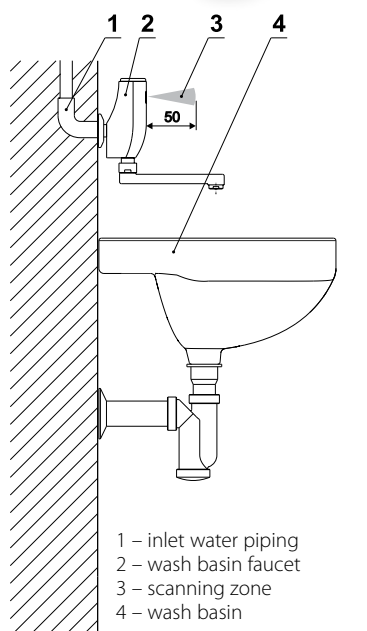
Characteristics
• on-wall fixture
• high level of hygiene
• water and energy saving
• comfortable operation
• easy installation
• hygienic flushing
• parameter setting by means of a remote control
• two-way communication by means of DO 5.1

Performance description:
The device discharges water by a hand motion in the scanning zone or it stops it by a repeated hand motion in front of the sensor (START-STOP function). The flow period is standardly set to approx. 23 seconds. The hygienic flush function can be activated by means of DO-5.1 remote control.

Basic data
– range:	approx. 5 cm
– power supply:	6 V Li, CR-P2 battery
– max. water temperature:	70 °C/ 80 °C - 10 min. during thermal disinfection
– water pressure:	0,05- 1,0 MPa
– connection sizes:	G1/2"
– water flow:	6 l/min

Special features
– solid brass body with a chrome finish
– rotating outlet l ~160 mm and l ~ 200 mm, suitable for double sinks too
– hygienic flushing adjustable from 0-108 hours
– flushing period adjustable from 5-180 seconds
– pre-set to 72 hours and 30 seconds
– possible thermal disinfection activation

1 – inlet water piping
2 – wash basin faucet
3 – scanning zone
4 – wash basin

WBS-P3.1–160.1   order No. SE.02.60.32–160
On-wall wash basin faucet for cold or pre-mixed water. With l ~ 160 mm outlet. Chrome finish. 6 V Li battery supply.

WBS P3.1–200.1   order No. SE.02.60.32–200
On-wall wash basin faucet for cold or pre-mixed water. With l ~ 200 mm outlet. Chrome finish. 6 V Li battery supply.

Special accessories
– 6 V Li, CR–P2 battery	order No. SE.06.16.01–000
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110
– outlet VTK–01–160 mm straight	order No. SE.07.20.20–000
– outlet VTK–01–200 mm straight	order No. SE.07.20.21–000

automatic outlet fixture

WBS P2/150.1–160, WBS P2.2–TLN –160
WBS P2/150.1–200, WBS P2.2–TLN –200

Characteristics
- on-wall fixture
- high level of hygiene
- water and energy saving
- comfortable operation
- easy installation
- hygienic flushing
- parameter setting by means of a remote control
- two-way communication by means of DO 5.1

Performance description:
The device discharges water by a hand motion in the scanning zone or it stops it by a repeated hand motion in front of the sensor (START-STOP function). The flow period is standardly set to approx. 23 seconds. It is possible to set water temperature using a thermostatic mixer. The hygienic flush function can be activated by means of DO-5.1 remote control.

Basic data
– range:	approx. 5 cm
– power supply:	6 V DC or 6 V Li, CR-P2 battery
– battery life:	approx. 2 years at 6000 cycles a month
– max. water temperature:	70 °C/ 80 °C - 10 min. during thermal disinfection
– water pressure:	0,05- 1,0 MPa
– connection pitch:	150 mm
– connection sizes:	2 x G1/2"
– water flow:	6 l/min

Special features
- solid brass body with a chrome finish
- rotating outlet l ~160 mm and l ~ 200 mm,
- suitable for double sinks too
- connection pitch 150 mm
- hygienic flushing adjustable from 0-108 hours
- flushing period adjustable from 5-180 seconds
- pre-set to 72 hours and 30 seconds
- possible thermal disinfection activation
- possible thermal disinfection mode activation
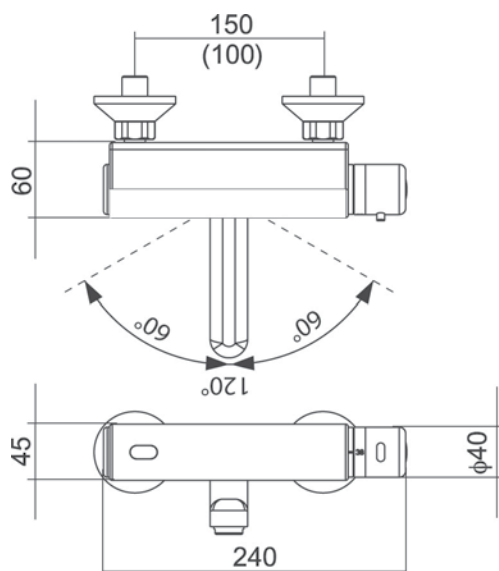
WBS P2 /150.1–160 order No. SE.02.53.40–160
WBS P2 /150.1–200 order No. SE.02.53.39–200
On-wall wash basin faucet with thermostatic temperature setting. Connection pitch 150 mm. With l ~ 160 mm or l ~ 200 mm outlet. Chrome finish. 6 V Li battery power supply.

WBS P2.2–TLN–160 order No. SE.02.53.41–160
WBS P2.2–TLN–200 order No. SE.02.53.41–200
On-wall wash basin faucet with thermostatic temperature setting. Connection pitch 150 mm. With l ~ 160 mm or l ~ 200 mm outlet. Chrome finish. 6 V Li battery power supply. **6 V DC external power supply only.**

Special accessories
– 6 V Li, CR–P2 battery	order No. SE.06.16.01–000
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110
– outlet VTK–01–160 mm straight	order No. SE.07.20.20–000
– outlet VTK–01–200 mm straight	order No. SE.07.20.21–000
– ZAS 230A/6DS30C power supply	order No. SE.06.21.31–020
(for centralized supply, max. 3 pcs. of WBS)	

automatic outlet fixture

WBS R 1.2–TL EXT, WBS R 1.1–TL EXT
WBS R 1.2–RK EXT, WBS R 1.1–RK EXT
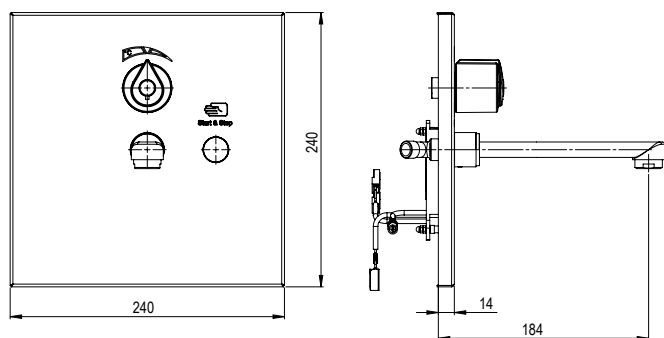
Characteristics
• concealed fixture
• high level of hygiene
• water saving
• comfortable operation
• stainless steel finish

Performance description
The device optoelectrically scans the user´s hands in the range zone (RK – under the outlet, TL – in front of the START – STOP sensor) and then starts or stops water. Version for pre-mixed water (1.1) and for thermostatically mixed water (1.2).

Basic data
– range: approx. 5 cm (TL), max. 27 cm (RK), DO-5.1 adjustable
– power supply: 230V, AC (6V, DC) power supply or 6V, Li-CRP2 battery in a PB1 case (special accessories).
– faucet life: approx. 2 years at 6000 cycles a month
– water pressure: 0.05 – 1.0 MPa
– connection sizes: 2 X G1/2"
– water flow: 6 l/min at 1-5 bar
– dimensions: w 240 x h 240 x d 14 mm (with outlet 170 mm – d 184 mm
– parameter setting using the DO-5.1 remote control (accessories)
– flow time (TL) or stop time (RK), hygienic flush, stop, disinfection flush

Specialties
– archiving of operational statistics – number of cycles, etc. possible
– hygienic flush after the last use according to the setting
– adjustable stagnation time for hygienic flush
– external inlet for hygienic flush and thermal disinfection

| SABA R1.2–TL EXT

WBS R 1.1-TL EXT   order No. SE.02.71.37-000
Wall-mounted faucet with a 170 mm straight outlet, connection hoses, installation kit. Designed for cold or pre-mixed water. Touchless START-STOP control. With external inlet for hygienic flush. 6V supply from mains supply or Li, CR-P2 battery (special accessories).

WBS R 1.2-TL EXT   order No.SE.02.71.12-000
Wall-mounted faucet with a 170 mm straight outlet, connection hoses, installation kit. Thermostatic mixing of hot and cold water. Touchless START-STOP control. With external inlet for hygienic flush. 6V supply from mains supply or Li, CR-P2 battery (special accessories).

WBS R 1.1-RK EXT   order No.SE.02.71.38-000
Wall-mounted faucet with a 170 mm straight outlet, connection hoses, installation kit Designed for cold or pre-mixed water. Touchless control with hand scanning ounder the outlet. With external inlet for hygienic flush. 6V supply from mains supply or Li, CR-P2 battery (special accessories).

WBS R 1.2-RK EXT   order No. SE.02.71.13-000
Wall-mounted faucet with a 170 mm straight outlet, connection hoses, installation kit Thermostatic mixing of hot and cold water. Touchless control with hand scanning under the outlet. With external inlet for hygienic flush. 6V supply from mains supply or Li, CR-P2 battery (special accessories).

Special accessories:
– power supply ZAS 230A/6DS30C   Order No. SE.06.21.31-020
  (for group supply, max. 3 pcs WBS)
– remote control DO-5.1   Order No. SE.09.02.12-210
– remote control DO-5.1U   Order No. SE.09.02.07-110
– 6 V Li, CR-P2 battery   Order No. SE.06.16.01-000
– case for PB-1 batteries   Order No. SE.06.21.52-000
– installation set WBS R1.2-M   Order No. SE.02.71.10-000

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

automatic outlet fixture

WBS Q5.1-TL EXT, WBS Q5.2-TL EXT
WBS Q5.1-RK EXT, WBS Q5.2-RK EXT

Characteristics
• wall-mounted fittings
• high level of hygiene
• water saving
• comfortable operation
• easy installation
• stainless steel finish

Performance description
The device optoelectrically scans the user´s hands in the range zone (RK – under the outlet, TL – in front of the START – STOP sensor) and then starts or stops water. Version for pre-mixed water (5.1) and for thermostatically mixed water (5.2).

Basic data
– range: approx. 5 cm (TL), max. 27 cm (RK), DO-5.1 adjustable
– power supply: 230V, AC (6V, DC) power supply or 6V, Li-CRP2 battery in a PB1 case (special accessories).
– faucet life: approx. 2 years at 6000 cycles a month
– water pressure: 0.05 – 1.0 MPa
– connection sizes: 2 X G1/2"
– water flow: 6 l/min at 1-5 bar
– dimensions: w 200 x h 220 x d 78 mm (with outlet 120 mm – d 198 mm)
– parameter setting using the DO-5.1 remote control (accessories)
– flow time (TL) or stop time (RK), hygienic flush, stop, disinfection flush

Specialties:
– archiving of operational statistics – number of cycles, etc.
– possible hygienic flush after the last use according to the setting
– adjustable stagnation time for hygienic flush
– external inlet for hygienic flush and thermal disinfection

automatic range adjustment (max. 240)

automatic range adjustment (max. 240)
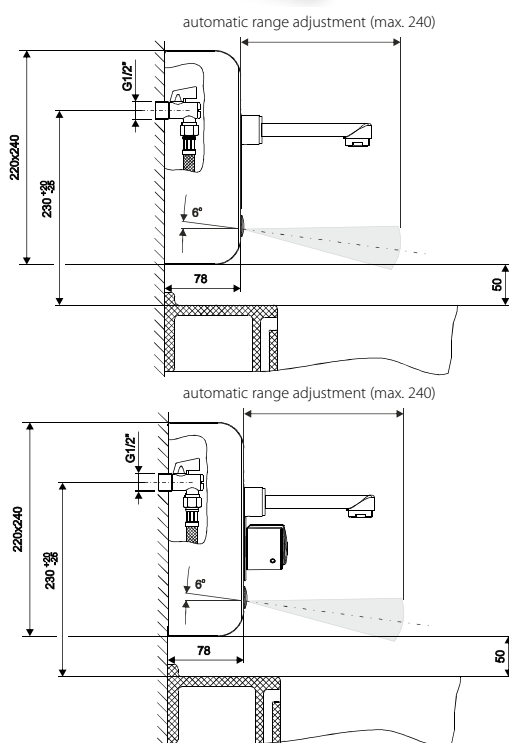
WBSQ 5.1 TL EXT   order No. SE.02.71.17-000
Wall-mounted faucet with a 120 mm straight outlet, connection hoses, installation kit. Designed for cold or pre-mixed water. Touchless START-STOP control. With external inlet for hygienic flush. 6V supply from mains supply or Li, CR-P2 battery (special accessories).

WBSQ 5.2 TL EXT   order No.SE.02.71.18-000
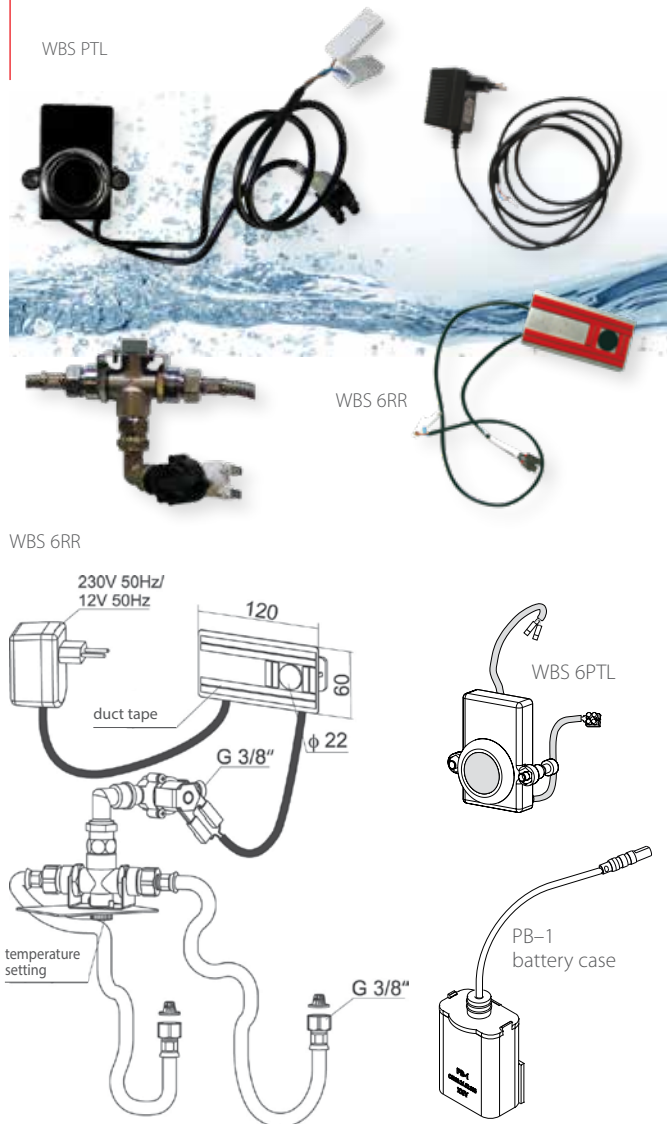Wall-mounted faucet with a 120 mm straight outlet, connection hoses, installation kit. Thermostatic mixing of hot and cold water. Touchless START-STOP control. With external inlet for hygienic flush. 6V supply from mains supply or Li, CR-P2 battery (special accessories).

WBSQ 5.1 RK EXT   order No.SE.02.71.15-000
Wall-mounted faucet with a 120 mm straight outlet, connection hoses, installation kit Designed for cold or pre-mixed water. Touchless control with hand scanning under the outlet. With external inlet for hygienic flush. 6V supply from mains supply or Li, CR-P2 battery (special accessories).

WBSQ 5.2 RK EXT   order No. SE.02.71.16-000
Wall-mounted faucet with a 120 mm straight outlet, connection hoses, installation kit Thermostatic mixing of hot and cold water. Touchless control with hand scanning under the outlet. With external inlet for hygienic flush. 6V supply from mains supply or Li, CR-P2 battery (special accessories).

Special accessories:
– power supply ZAS 230A/6DS30C   Order No. SE.06.21.31-020
  (for group supply, max. 3 pcs WBS)
– remote control DO-5.1   Order No. SE.09.02.12-210
– remote control DO-5.1U   Order No. SE.09.02.07-110
– 6 V Li, CR-P2 battery   Order No. SE.06.16.01-000
– case for PB-1 batteries   Order No. SE.06.21.52-000

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

automatic water discharge

WBS 6RRB | WBS 6RR.1
WBS PTL/E | WBS PTLB/E

WBS PTL

WBS 6RR

WBS 6RR

230V 50Hz/
12V 50Hz

120

60

duct tape

ø 22

G 3/8"

temperature
setting

G 3/8"

WBS 6PTL

PB–1
battery case

G 3/8"

Characteristics
• installation set for stainless steel wash basins
• water and energy saving
• comfortable operation
• high level of hygiene

Performance description
WBS 6RR is used for fitting in stainless steel wash basins. The device opto-electronically scans a person standing in front of the wash basin. After the person leaves the zone it stops water. Hygienic flush function can be activated by means of DO-2 remote control. Water temperature can be set using a mixer.
WBS PTL/E is used for a special wash basin sensor application. The device discharges water by a hand motion in the scanning zone or it stops it by a repeated hand motion in front of the sensor (START-STOP function). Flow period is standardly set to approx. 20 seconds. Hot water can be set using a thermostatic mixer. Hygienic flush function can be activated by means of DO-2 remote control.

Basic data
– range: WBS 6RR   35 cm pre-set, adjustable from 20 to 50 cm
– range: WBS PTL   approx. 5 cm
– power supply: 12V~, DC, 6 V Li, CR-P2 battery
– max. water temperature: 70 °C
– water pressure: 0,05- 1,0 MPa
– connection sizes: G3/8"

Special features
– dirt filter at the connection hose inlet
– protection against flooding
– WBS 6RR, WBS 6RRB - with activated hygienic flush water is discharged every 12 hours for 30 seconds
– WBS PTL, PTLB - hygienic flush adjustable from 0-108 hours

WBS 6RR   order No. SE.02.52.88–001
Set for automatic water discharge – electronics with connection cables, an electromagnetic valve, a mixer, power supply 230 V/12 V~ and a connection hose.

WBS 6RRB   order No. SE.02.52.88–030
Set for automatic water discharge – electronics with connection cables, an electromagnetic valve, a mixer, PB-1 battery case, a connection head. 6 V Li battery power supply.

WBS PTL/E   order No. SE.02.52.89–900
Electronics with a special wash basin and sink sensor application. Power supply 230V/12 V~.

WBS PTLB/E   order No. SE.02.52.89–910
Electronics with a special wash basin and sink sensor application. 6 V Li battery power supply.

Special accessories
– 6 V Li, CR–P2 battery   order No. SE.06.16.01–000
– DO–2 remote control   order No. SE.09.02.04–000
– DO–2U remote control   order No. SE.09.02.07–000
– ZAS 50/12t power supply   order No. SE.06.21.21–000
– ZAS 230A/12A.1 power supply   order No. SE.06.21.32–900
  (Termination using a RAPP connector)
– ZAS 230A/12A.2 power supply   order No. SE.06.21.34–900
  (Termination using a RAPP connector)

automatic shower fixtures

opto-electronic
– concealed
– wall-mounted-panel
– on-wall
– thermostatic

automatic thermostatic shower faucet

SABA P2.1–150
SABA P2U.1–150

Characteristics
- on-wall fixture
- high level of hygiene
- water and energy saving
- comfortable operation
- easy installation
- hygienic flushing
- parameter setting by means of a remote control
- two-way communication by means of DO 5.1

Performance description
The device discharges water by a hand motion in the scanning zone, the flow period is standardly set to approx. 20 seconds, or it stops it by a repeated hand motion in front of the sensor (START-STOP function). It is possible to set water temperature using a thermostatic mixer. Hygienic flush and thermal disinfection functions can be activated by means of DO-5.1 remote control.

Basic data
|	
– range:	approx. 5 cm
– power supply:	6 V Li, CR-P2 battery
– battery life:	approx. 2 years at 6000 cycles a month
– max. water temperature:	70 °C/ 80 °C - 10 min. during thermal disinfection
– water pressure:	0,05- 1,0 MPa
– pitch:	150 mm
– connection sizes:	2xG1/2"
– shower head connection size:	G1/2"

Special features
- solid brass body with a chrome finish
- connection pitch - 150 mm
- hygienic flush adjustable from 0-108 hours
- flushing period adjustable from 5-180 seconds
- pre-set to 72 hours and 30 seconds
- possible thermal disinfection activation
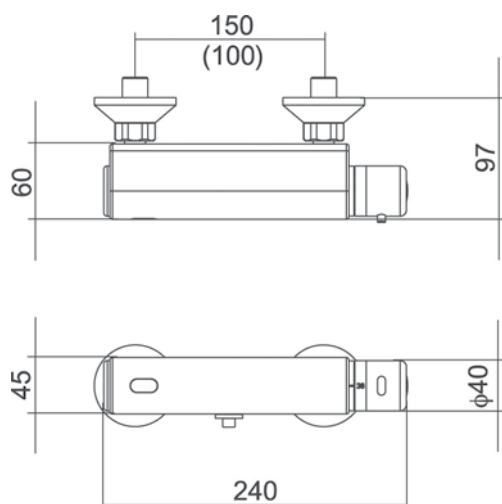
SABA P2.1–150   order No. SE.04.14.70–100
On-wall shower faucet with thermostatic temperature setting. Connection pitch - 150 mm. The body finished with a 1/2" threaded connection. Without a shower hose and a shower head. Chrome finish. Connection of a shower hose from the bottom. 6 V Li battery power supply.

SABA P2U.1–150   order No. SE.04.14.70–200
On-wall shower faucet with thermostatic temperature setting. Connection pitch - 150 mm. The body finished with a 1/2" threaded connection. Without a shower hose and a shower head. Chrome finish. Connection of a shower hose from the bottom. 6 V Li battery power supply.

Special accessories
– 6 V Li, CR–P2 battery	order No. SE.06.16.01–000
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

wall-mounted shower fixture

SABA Q1.2–TL EXT

Characteristics
- water and energy saving
- easy installation
- high level of hygiene
- stainless steel design
- comfortable operation
- grounded finish
- two-way communication by means of DO 5.1

Performance description
The device discharges water by a hand motion in the scanning zone. The water flow period is standardly set to approx. 23 s (adjustable from 3 to 83 by means of DO-5.1). It is possible to stop the shower during the water flow by a repeated hand motion in the scanning zone. Temperature setting using a thermostatic mixer. The device maintains a constant water temperature and ensures personal protection against scalding. Hygienic flush and thermal disinfection functions can be activated by means of DO-5.1 remote control.

Basic data
– range: approx. 5 cm
– power supply: 6 V Li, CR-P2 battery, ZAS 230A/6DS30C power supply
– battery life: approx. 2 years at 6000 cycles a month
– max. water temperature: 70 °C
– water pressure: 0,05- 1,0 MPa
– water flow period: approx. 20 s (adjustable 3-83 s)
– parameter setting by means of DO 5.1 remote control

Special features
– SP-1 water saving shower head, 7 l/min.
– possible hygienic flush activation
– hygienic flush adjustable from 0-108 hours
– flushing period adjustable from 5-180 seconds
– pre-set to 72 hours and 30 seconds
– possible thermal disinfection activation

Dimensions
– stainless steel plate: 1250 x 220 x 78 mm
– connection sizes: G3/8"
– matt grounded finish

140

G 3/8"

2030 mm

1150 mm

5 cm
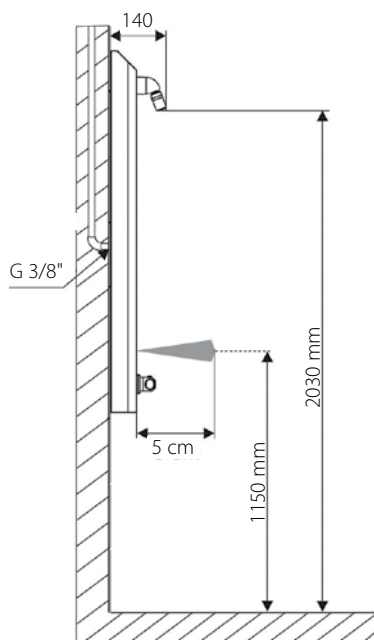
SABA Q1.2–TL EXT   order No. SE.04.14.39–000
Concealed stainless steel sensor device with a hand motion scanning /START-STOP function/ with a SP-1 chrome finish shower head (7 l/min). Temperature setting using a thermostatic mixer. Complete with an electromagnetic valve, interconnection hoses and a fixing set. 6 V Li battery power supply or 6V DC external power supply.
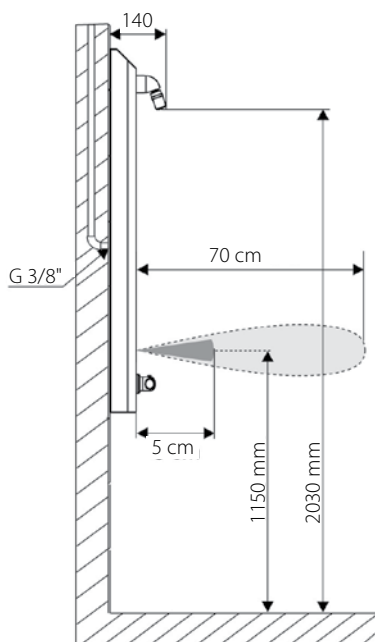
Special accessories
– 6 V Li, CR–P2 battery	order No. SE.06.16.01–000
– PB-1 battery case	order No. SE.06.21.52–000
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110
– ZAS 230A/6DS30C power supply	order No. SE.06.21.31–000
(for centralized supply, max. 3 pcs. of SABA)	

wall-mounted shower fixture

SABA Q1.2 REXT.1 BYP

Characteristics
• water and energy saving
• easy installation
• high level of hygiene
• stainless steel design
• grounded finish
• comfortable operation
• double sensor
• two-way communication by means of DO-5.1

Performance description
The device discharges water by a hand motion in the scanning zone. The water flow period is standardly set to approx. 23 s (adjustable from 3 to 83 by means of DO-5.1). It is possible to stop the shower during the water flow by a repeated hand motion in the scanning zone. When a person leaves the range zone before the time passes (as a standard approx. 23 s), water stops as well. Temperature setting using a thermostatic mixer. The device maintains a constant water temperature and ensures personal protection against scalding.
The shower is completed with a BYPAS side branch enabling automatic thermal disinfection. Hygienic flush and thermal disinfection functions can be activated by means of DO-5.1 remote control.

Basic data
– range:	approx. 70 cm for scanning from a person approx. 5 cm for scanning from a hand
– power supply:	6 V Li, CR-P2 battery, ZAS 230A/6DS30C power supply
– battery life:	approx. 2 years at 6000 cycles a month
– max. water temperature:	70 °C/ 80 °C - 10 min. during thermal disinfection
– water pressure:	0,05- 1,0 MPa
– water flow period:	approx. 23 s (adjustable 3-83 s)

Special features
– SP-1 water saving shower head, 7 l/min.
– hygienic flush adjustable from 0-108 hours
– flushing period adjustable from 5-180 seconds
– pre-set to 72 hours and 30 seconds
– possible automatic thermal disinfection activation

Dimensions
– stainless steel plate:	1250 x 220 x 78 mm (h x w x d)
– connection sizes:	G3/8""
– matt grounded finish	

140

G 3/8"

70 cm

5 cm

1150 mm

2030 mm

**SABA Q1.2 REXT.1BYP**   order No. SE.04.15.42–100
Concealed stainless steel sensor device with a hand motion scanning /START-STOP function/ with a double range, i.e. a person presence scanning. With a SP-1 chrome finish shower head (7 l/min.). Temperature setting using a thermostatic mixer. Complete with an electromagnetic valve, interconnection hoses and a fixing set. 6 V Li battery power supply or 6V DC external power supply.

Special accessories
– battery 6 V Li, CR–P2	order No. SE.06.16.01–000
– PB-1 battery case	order No. SE.06.21.52–000
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110
– ZAS 230A/6DS30C power supply	order No. SE.06.21.31–000
(for centralized supply, max. 3 pcs. of SABA)	

wall-mounted shower fixture

SABA Q1.2–REXT.1 FIL
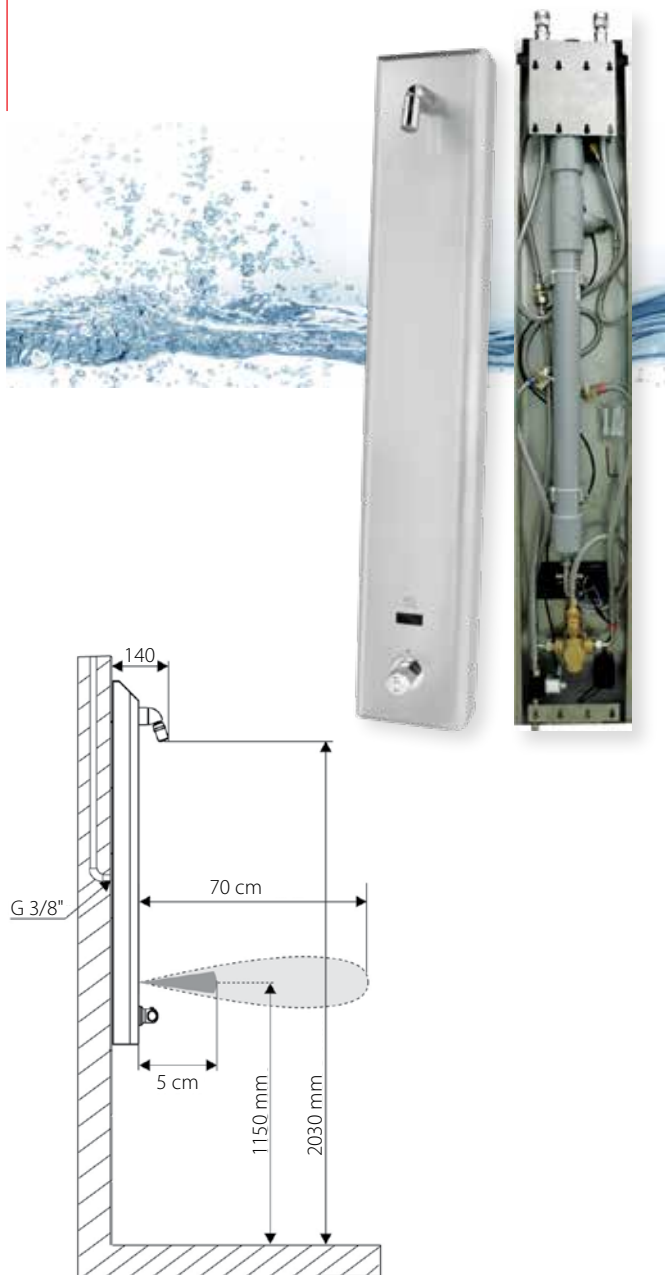
Characteristics
• micro filter
• water and energy saving
• easy installation
• high level of hygiene
• stainless steel design
• grounded finish
• comfortable operation
• double sensor
• two-way communication by means of DO 5.1

Performance description
The device discharges water by a hand motion in the scanning zone. The water flow period is standardly set to approx. 23 s (adjustable from 3 to 83 by means of DO-5.1). It is possible to stop the shower during the water flow by a repeated hand motion in the scanning zone. When a person leaves the range zone before the time passes (as a standard approx. 23 s), water stops as well.
Temperature setting using a thermostatic mixer. The device maintains a constant water temperature and ensures personal protection against scalding. A microfilter enables to remove Legionella bacteria from the water. Hygienic flush and thermal disinfection functions can be activated using DO-5.1 remote control or an external push-button.

Basic data
– range:	approx. 70 cm for scanning from a person approx. 5 cm for scanning from a hand
– power supply:	6 V Li, CR-P2 battery, ZAS 230A/6DS30C power supply
– battery life:	approx. 2 years at 6000 cycles a month
– max. water temperature:	70 °C
– water pressure:	0,05- 1,0 MPa
– water flow period:	approx. 23 s (adjustable 3-83 s)

Special features
– SP-1 water saving shower head, 7 l/min.
– hygienic flush activation
– possible Legionella flushing activation

Dimensions
– stainless steel plate:	1250 x 220 x 78 mm (h x w x d)
– connection sizes:	G3/8"
– matt grounded finish	

140

G 3/8"

70 cm

5 cm

1150 mm

2030 mm

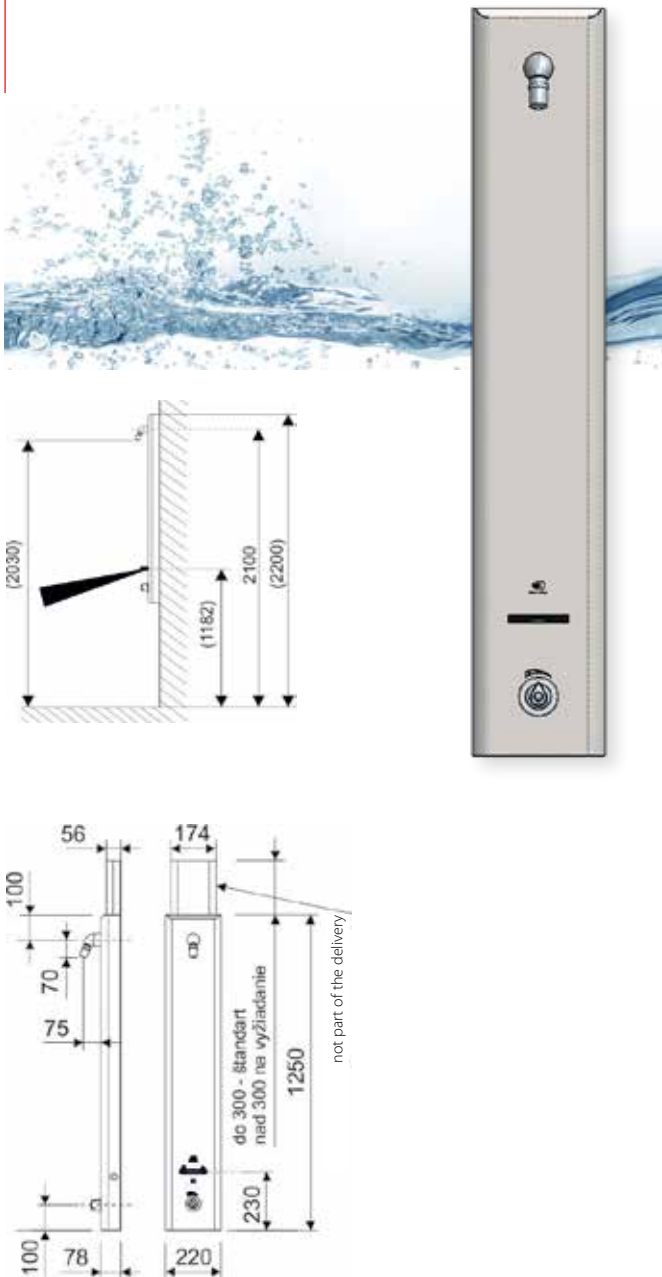**SABA Q1.2–REXT.1 FIL** order No. SE.04.16.02–000
Concealed stainless steel sensor device with a hand motion scanning /START-STOP function/ with a double range, i.e. a person presence scanning. With a SP-1 chrome finish shower head (7 l/min.). Temperature setting using a thermostatic mixer. Complete with a Legionella filter, an electromagnetic valve, interconnection hoses and a fixing set. 6 V Li battery power supply or 6V DC external power supply.

Special accessories
– 6 V Li, CR–P2 battery	order No. SE.06.16.01–000
– PB-1 battery case	order No. SE.06.21.52–000
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110
– ZAS 230A/6DS30C power supply	order No. SE.06.21.31–000
(for centralized supply, max. 3 pcs. of SABA)	

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

wall-mounted shower fixture

SABA Q4.2–TL EXT/RFID

Characteristics
- wall-mounted shower panel
- high level of hygiene
- water saving
- comfortable operation
- stainless steel finish
- remote control using the Bluetooth mobile app

Performance description
The device optoelectronically scans the user in the range zone and enables touchless water control by bringing your hand in front of the scanned field - START-STOP. Bringing your hand back during the flow means STOP. The water temperature is set by means of a thermostat, which also provides protection against scalding. The device enables hygienic flush and thermic disinfection. The mobile app with Bluetooth communication via an external module enables you to read operational statistics, archive and print hygienic protocols, as well as adjust preset parameters.

Basic data
- range: approx.   70 and 5 cm
- power supply: 12 V DC
- water flow time: 3 - 83 sec, preset to 23 sec
- dimensions: w 220 x h 1250 x d 78 mm
        (with overhead shower approx. 160 mm)
- water connection from the top or from the back - 2 x G3/8"
- dirt filter at the thermostat inlet
- operating pressure 0.5-10 bar, recommended 1-5 bar, P1-P2 less than 2
- water flow 7 l/min at 1-5 bar
- water temperature: hot water - max. 70 °C, cold water - max. 25 °C, recommended difference 50 °C
- parameter setting using the Android mobile app with Blue-tooth communication

Specialties
- archiving of operational statistics a parameter setting using the Bluetooth mobile app
- double-action optical sensor – scans control and persons
- possible hygienic flush according to the setting after the last use
- adjustable stagnation time for hygienic flush
- external inlet for hygienic flush and thermal disinfection
- STOP and LONG STOP function using a magnet
- time functions in real time
- removable, double-sided shower cover
- preparation for connecting RFID device

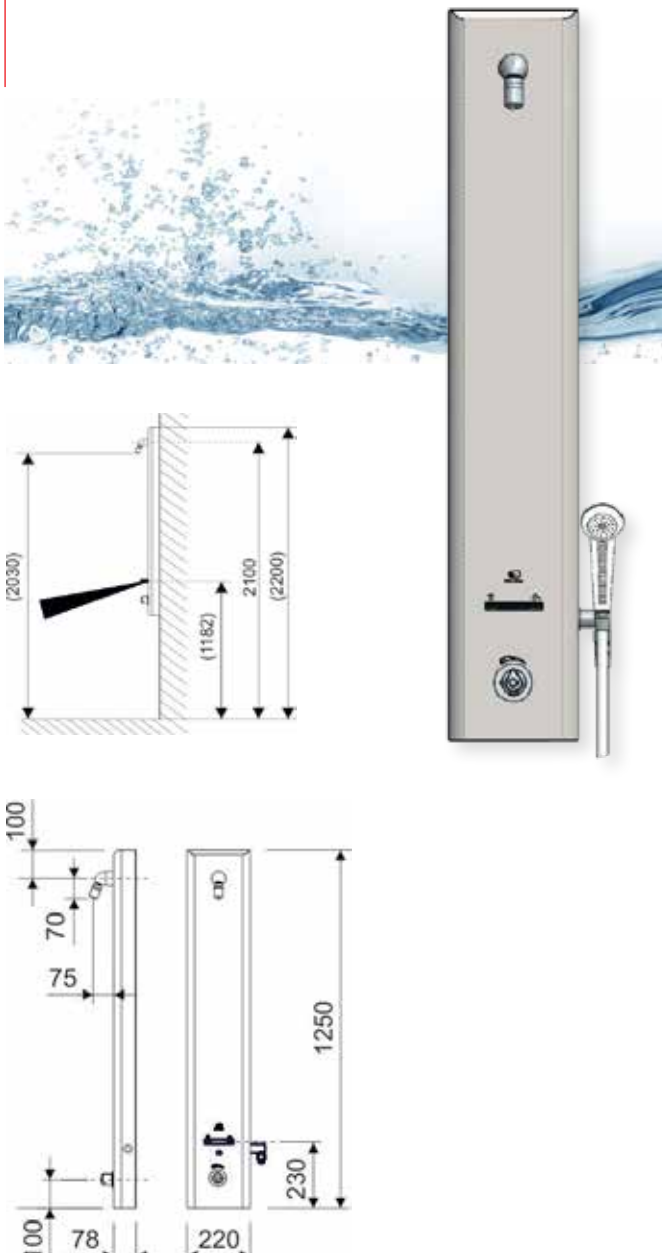**SABA Q4.2-TL EXT/RFID**   order No. SE.04.16.68-000
Wall-mounted stainless steel fitting with an overhead shower, hand-held shower, touchless separate switching on and off. Adjustable automatic hygienic flush. START / STOP mode with switchable person sensing. Colour LED signalling. Inlets for external hygienic and thermal flush. Preparation for connecting RFID device. 12V DC mains supply (special accessory). Parameter setting, status check and archiving of hygienic records with the external, built.in Bluetooth module (special accessories).

Special accessories:
- power supply HDR 60-12 230V AC
  (12V DC) 4,5A JDC   Order No. PLU 1/14671
  (for max 8 pcs SABA)
- BLES-4.01 Bluetooth adapter   Order No. SE.26.00.01-000
- Android App
  (Android min. 7+, BT min. 4.2)   Order No. SE.04.16.80-000

wall-mounted shower fixture

SABA Q4.2–2x TL EXT BS (RFID)

Characteristics
- wall-mounted shower panel
- high level of hygiene
- water saving
- comfortable operation
- stainless steel finish
- remote control using the Bluetooth mobile app
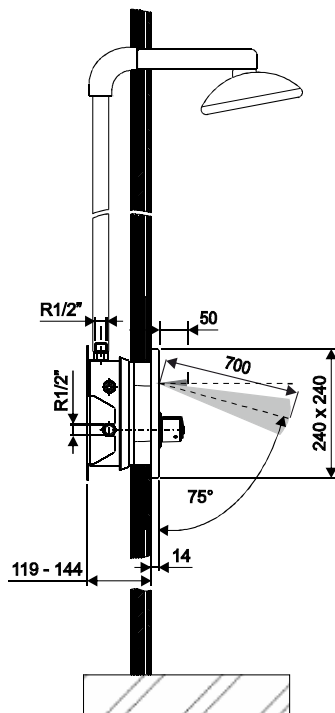
Performance description
The device optoelectronically scans the user in the range zone and enables touchless water control by bringing your hand in front of the scanned field - START-STOP. Bringing your hand back during the flow means STOP. The water temperature is set by means of a thermostat, which also provides protection against scalding. The device enables hygienic flush and thermic disinfection. The mobile app with Bluetooth communication via an external module enables you to read operational statistics, archive and print hygienic protocols, as well as adjust preset parameters.

Basic data
- range: approx. 70 and 5 cm
- water flow time: 3 - 83 sec, preset to 23 sec
- dimensions: w 220 x h 1250 x d 78 mm (with overhead shower approx. 160 mm)
- water connection from the top or from the back - 2 x G3/8"
- dirt filter at the thermostat inlet
- operating pressure 0.5-10 bar, recommended 1-5 bar, P1-P2 less than 2
- water flow: 7 l/min at 1-5 bar
- water temperature: hot water - max. 70 °C, cold water - max. 25 °C, recommended difference 50 °C
- parameter setting using the Android mobile app with Blue-tooth communication

Specialties:
- archiving of operational statistics a parameter setting using the Bluetooth mobile app
- double-action optical sensor – scans control and persons
- possible hygienic flush according to the setting after the last use
- adjustable stagnation time for hygienic flush
- external inlet for hygienic flush and thermal disinfection
- STOP and LONG STOP function using a magnet
- time functions in real time
- removable, double-sided shower cover
- preparation for connecting RFID device

SABA Q4.2-2xTL EXT BS (RFID)   Order No. SE.04.16.66-000
Wall-mounted stainless steel fitting with an overhead shower and an outlet for a side, handheld shower, touchless separate switching on and off of both showers. Adjustable automatic hygienic flush. START / STOP mode with switchable person sensing. Colour LED signalling. Inlets for external hygienic and thermal flush. Preparation for connecting RFID device. 12V DC mains supply (special accessory). Parameter setting, status check and archiving of hygienic records with the external, built.in Bluetooth module (special accessories).

Special accessories:
- power supply HDR 60-12 230V AC (12V DC) 4,5A JDC (for max 8 pcs SABA) — Order No. PLU 1/14671
- BLES-4.01 Bluetooth adapter — Order No. SE.26.00.01-000
- Android App (Android min. 7+, BT min. 4.2) — Order No. SE.04.16.80-000

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

automatic control for showers

SABA R4.2–TL EXT (RFID)

Characteristics
• concealed fixture - final set
• high level of hygiene
• water saving
• comfortable operation
• stainless steel finish
• remote control using the Bluetooth mobile app
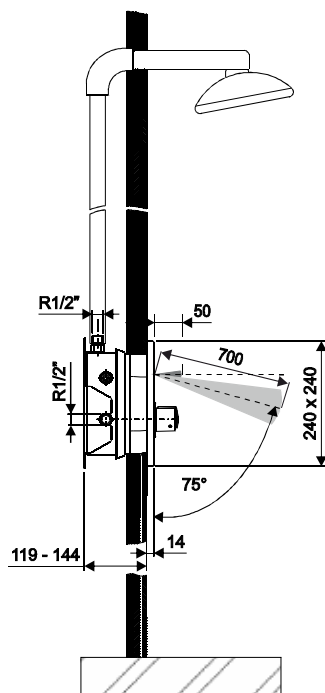
Performance description
The device optoelectronically scans the user in the range zone and enables touchless water control by bringing your hand in front of the scanned field - START-STOP. Bringing your hand back during the flow means STOP. The water temperature is set by means of a thermostat, which also provides protection against scalding. The device enables hygienic flush and thermic disinfection. The mobile app with Bluetooth communication via an external module enables you to read operational statistics, archive and print hygienic protocols, as well as adjust preset parameters. It is mounted in the appropriate SABA R1.2-M installation set- special accessories.

Basic data
– range: approx. 70 and 5 cm
– water flow time: 3 - 83 sec, preset to 23 sec
– dimensions: w 240 x h 240 x d 14 mm
                     (with overhead shower approx. 160 mm)
– water connection 3 x G1/2"
– dirt filter at the thermostat inlet
– operating pressure 0.5-10 bar, recommended 1-5 bar,
  P1-P2 less than 2
– water flow: 7 l/min at 1-5 bar
– water temperature: hot water - max. 70 °C, cold water - max. 25 °C, recommended difference 50 °C
– parameter setting using the Android mobile app with Blue-tooth communication

Specialties
– archiving of operational statistics a parameter setting using the Bluetooth mobile app
– double-action optical sensor – scans control and persons
– possible hygienic flush according
– adjustable stagnation time for hygienic flush
– external inlet for hygienic flush and thermal disinfection
– STOP and LONG STOP function using a magnet
– time functions in real time
– preparation for connecting RFID device

SABA R4.2-TL EXT (RFID)   Order No. SE.04.16.74-000
Concealed stainless steel fitting with an outlet for an overhead shower, touchless switching on and off. START / STOP mode with switchable person sensing. Adjustable automatic hygienic flush. Colour LED signalling. Inlets for external hygienic and thermal flush. Preparation for connecting RFID device. 12V DC mains supply (special accessory). Parameter setting, status check and archiving of hygienic records with the external, built.in Bluetooth module (special accessories).
The product is delivered without SABA R1.2M installation set.

Special accessories:
– power supply HDR 60-12 230V AC
  (12V DC) 4,5A JDC   Order No. PLU 1/14671
  (for max 8 pcs SABA)
– BLES-4.01 Bluetooth adapter   Order No. SE.26.00.01-000
– Android App
  (Android min. 7+, BT min. 4.2)   Order No. SE.04.16.80-000
– installation set SABA R1.2-M
  (for SABA R4)   Order No. SE.04.15.43-000

wall-mounted shower fixture

SABA R4.2–2x TL EXT BS (RFID)

Characteristics
- concealed fixture - final set
- high level of hygiene
- water saving
- comfortable operation
- stainless steel finish
- remote control using the Bluetooth mobile app

Performance description
The device optoelectronically scans the user in the range zone and enables touchless water control by bringing your hand in front of the scanned field - START-STOP. Bringing your hand back during the flow means STOP. The water temperature is set by means of a thermostat, which also provides protection against scalding. The device enables hygienic flush and thermic disinfection. The mobile app with Bluetooth communication via an external module enables you to read operational statistics, archive and print hygienic protocols, as well as adjust preset parameters. It is mounted in the appropriate SABA R1.2-M installation set- special accessories.

Basic data
– range: approx. 70 and 5 cm
– water flow time: 3 - 83 sec, preset to 23 sec
– dimensions: w 240 x h 240 x d 14 mm
                      (with overhead shower approx. 160 mm)
– water connection 3 x G1/2"
– dirt filter at the thermostat inlet
– operating pressure 0.5-10 bar, recommended 1-5 bar,
  P1-P2 less than 2
– water flow: 7 l/min at 1-5 bar
– water temperature: hot water - max. 70 °C, cold water - max. 25 °C,
                      recommended difference 50 °C
– parameter setting using the Android mobile app with Blue-tooth communication

Specialties
– archiving of operational statistics a parameter setting using the Bluetooth mobile app
– double-action optical sensor – scans control and persons
– possible hygienic flush according
– adjustable stagnation time for hygienic flush
– external inlet for hygienic flush and thermal disinfection
– STOP and LONG STOP function using a magnet
– time functions in real time
– preparation for connecting RFID device

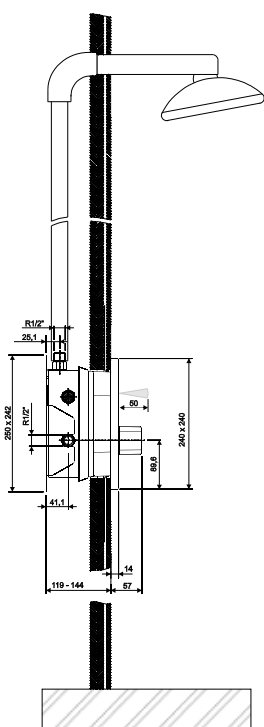### SABA R4.22x -TL EXT BS (RFID)   Order No. SE.04.16.71-000
Concealed stainless steel fitting with an outlet for an overhead shower and an outlet for a side handheld shower, touchless separate switching on and off of both showers. START / STOP mode with switchable person sensing. Adjustable automatic hygienic flush. Colour LED signalling. Inlets for external hygienic and thermal flush. Preparation for connecting RFID device. 12V DC mains supply (special accessory). Parameter setting, status check and archiving of hygienic records with the external, built.in Bluetooth module (special accessories).
The product is delivered without SABA R1.2M installation set.

Special accessories
– power supply HDR 60-12 230V AC
  (12V DC) 4,5A JDC   Order No. PLU 1/14671
  (for max 8 pcs SABA)
– BLES-4.01 Bluetooth adapter   Order No. SE.26.00.01-000
– Android App
  (Android min. 7+, BT min. 4.2)   Order No. SE.04.16.80-000
– installation set SABA R1.2-M
  (for SABA R4)   Order No. SE.04.16.75-000

automatic control for showers

SABA R1.2–TL EXT

Characteristics
• water saving
• comfortable operation
• START-STOP function
• Suitable for public applications
• two-way communication by means of DO 5.1

Performance description
The device discharges water by a hand motion in the scanning zone. The water flow period is standardly set to approx. 23 s (adjustable from 3 to 83 by means of DO-5.1). It is possible to stop the shower during the water flow by a repeated hand motion in the scanning zone. Temperature setting using a thermostatic mixer.
The device maintains a constant water temperature and ensures personal protection against scalding. Hygienic flush and thermal disinfection functions can be activated using DO-5.1 remote control or an external push-button.

Basic data
– range:	approx. 5 cm
– power supply:	6 V Li, CR-P2 battery,
	ZAS 230A/6DS30C power supply
– battery life:	approx. 2 years at 6000 cycles a month
	max. water temperature: 70 °C
– water pressure:	0,05- 1,0 MPa
– water flow period:	approx. 23 s (adjustable 3-83 s)
– parameter setting by means of DO 5.1 remote control	

Special features
– possible hygienic flush activation
– hygienic flush adjustable from 0-108 hours
– flushing period adjustable from 5-180 seconds
– pre-set to 72 hours and 30 seconds
– possible thermal disinfection activation

Dimensions
– cover:	240 x 240 x 14 mm (h x w x d)
– connection sizes:	R1/2"

SABA R1.2–TL EXT   order No. SE.04.15.44–000

A concealed stainless steel sensor device with a hand motion scanning /START-STOP function/. Temperature setting using a thermostatic mixer. Complete with an electromagnetic valve, interconnection hoses and a fixing set. 6 V Li battery or 6 V DC external power supply. **The product is delivered without SABA R1.2M installation set.**

Special accessories
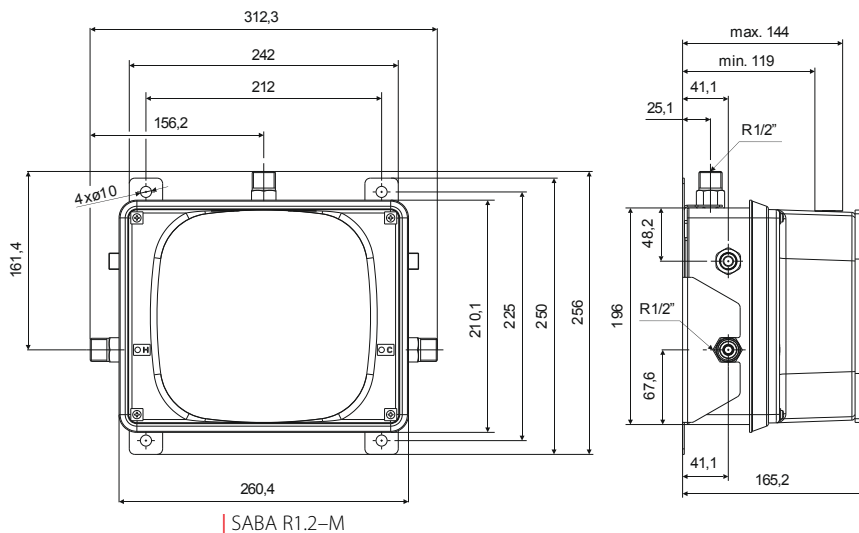|	
– 6 V Li, CR–P2 battery	order No. SE.06.16.01–000
– PB-1 battery case	order No. SE.06.21.52–000
– SP 1 shower rose	order No. SE.07.04.01–000
– SP 3 shower rose	order No. SE.07.08.01–000
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110
– ZAS 230A/6DS30C power supply	order No. SE.06.21.31–000
(for centralized supply, max. 3 pcs. of SABA)	
– SABA R1.2-M installation set	order No. SE.04.15.43–000

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

automatic control for showers

SABA R1.2–REXT.1 BYP

Characteristics
- water and energy saving
- high level of hygiene
- stainless steel design
- comfortable operation
- two-way communication by means of DO 5.1

Performance description
The device discharges water by a hand motion in the scanning zone. The water flow period is standardly set to approx. 23 s (adjustable from 3 to 83 by means of DO-5.1). It is possible to stop the shower during the water flow by a repeated hand motion in the scanning zone. When a person leaves the range zone before the time passes (as a standard approx. 23 s), water stops as well.
Temperature setting using a thermostatic mixer. A shower is completed with BYPAS enabling automatic thermal disinfection. Hygienic flush and thermal disinfection functions can be activated using DO-5.1 remote control or an external push-button.

Basic data
– range:	approx. 70 cm for scanning from a person approx. 5 cm for scanning from a hand
– power supply:	6 V Li, CR-P2 battery, ZAS 230A/6DS30C power supply
– battery life:	approx. 2 years at 6000 cycles a month
– max. water temperature:	70 °C/80 °C - 10 min. during thermal disinfection
– water pressure:	0,05- 1,0 MPa
– water flow period:	approx. 23 s (adjustable 10-70 s)

Special features
- hygienic flush adjustable from 0-108 hours
- flushing period adjustable from 5-180 seconds
- pre-set to 72 hours and 30 seconds

Dimensions
– cover:	240 x 240 x 14 mm (h x w x d)
– connection sizes:	R1/2"
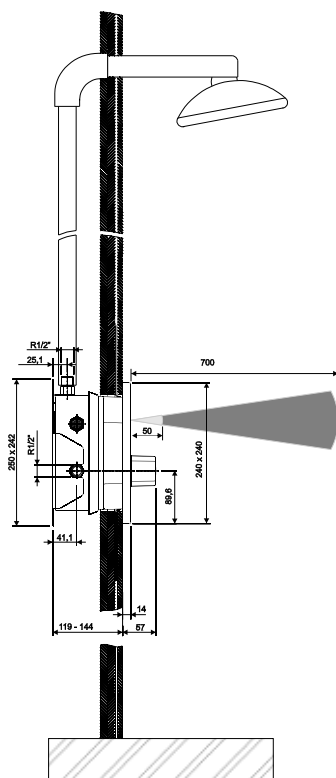
SABA R1.2–REXT.1 BYP   order No. SE.04.15.48–100
A concealed stainless steel sensor device with a hand motion scanning /START-STOP function/. Temperature setting using a thermostatic mixer. Complete with an electromagnetic valve, interconnection hoses and a fixing set. 6 V Li battery or 6 V DC external power supply. **The product is delivered without SABA R1.2M installation set.**

Special accessories
– 6 V Li, CR–P2 battery	order No. SE.06.16.01–000
– PB-1 battery case	order No. SE.06.21.52–000
– SP 1 shower rose	order No. SE.07.04.01–000
– SP 3 shower rose	order No. SE.07.08.01–000
– DO–5.1 remote control	order No. SE.09.02.12–210
– DO–5.1U remote control	order No. SE.09.02.07–110
– ZAS 230A/6DS30C power supply (for centralized supply, max. 3 pcs. of SABA)	order No. SE.06.21.31–000
– SABA R1.2-M installation set	order No. SE.04.15.43–000

installation set

SABA R1.2–M
SABA R1.2–M BS

| SABA R1.2–M

| SABA R1.2–M Bs

SABA R1.2-M   Order No. SE.04.15.43-000
Installation set for SABA R1.2 and SABA R4.2 without a side shower, with a side water inlet and a top water outlet. Suitable for bricking in or plasterboard walls, with inlet and outlet screwing, flushing pipe, sealing sleeve and installation tunnel.

SABA R1.2-M BS   Order No. SE.04.16.75-000
Installation set for SABA R1.2 and SABA R4.2 with a side shower, a side water inlet, a bottom water outlet for a side shower. Suitable for bricking in or plasterboard walls, with inlet and outlet screwing, flushing pipe, sealing sleeve and installation tunnel.

wall-mounted shower fixture

SABA Q1.2–LIN.2

Characteristics
• water and energy saving
• easy installation
• high level of hygiene
• stainless steel design
• comfortable operation
• ground finish
• two-way communication by means of DO 5.1

Performance description
The device discharges water by a hand motion in the scanning zone. The water flow period is standardly set to approx. 23 s (adjustable from 3 to 83 by means of DO-5.1). It is possible to stop the shower during the water flow by a repeated hand motion in the scanning zone. When a person leaves the range zone before the time passes (as a standard approx. 23 s), water stops as well. Temperature setting using a thermostatic mixer. The device maintains a constant water temperature and ensures personal protection against scalding. The shower is completed with a BYPAS side branch enabling automatic thermal disinfection. Hygienic flush and thermal disinfection functions can be activated by means of DO-5.1 remote control.

Basic data
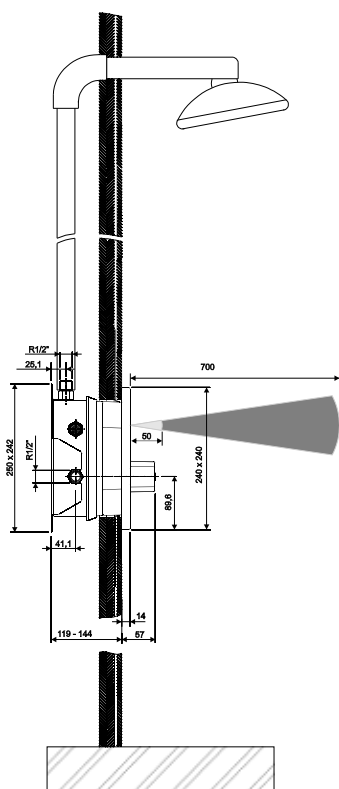– range: approx. 70 cm for scanning
                                 from a person approx. 5 cm
                                 for scanning from a hand
– power supply: 12 V DC
– max. water temperature: 70 °C/ 80 °C - 10 min.
                                 during thermal disinfection
– water pressure: 0,05- 1,0 MPa
– water flow period: approx. 23 s (adjustable 10-70 s)

Special features
– SP-1 water saving shower head, 7 l/min.
– hygienic flush adjustable from 0-108 hours
– flushing period adjustable from 5-180 seconds
– pre-set to 72 hours and 30 seconds
– possible automatic thermal disinfection activation
– water saving during thermal disinfection

Dimensions
– stainless steel plate: 1250 x 220 x 78 mm (h x w x d)
– connection sizes: G3/8"
– matt grounded finish.

140

70 cm

G 3/8"

5 cm

1150 mm

2030 mm

SABA Q1.2–LIN.1   order No. SE.04.15.19–000
Concealed stainless steel sensor device with a hand motion scanning /START-STOP function/ with a double range, i.e. a person presence scanning. With a SP-1 chrome finish shower head (7 l/min.). Temperature setting using a thermostatic mixer. Automatic sequencing of thermal disinfection process and thermal disinfection assessment. Possible sequencing into a group using SNS-2LIN-PTK. Complete with an electromagnetic valve, interconnection hoses and a fixing set. 12 V DC power supply.

Special accessories
– SNS–2LIN–PTK   order No. SE.19.00.14–000
– DO–5.1 remote control   order No. SE.09.02.12–210
– DO–5.1U remote control   order No. SE.09.02.07–110

automatic control for showers

SABA R1.2–LIN.2

Characteristics
• water and energy saving
• high level of hygiene
• stainless steel design
• comfortable operation
• two-way communication by means of DO 5.1

Performance description
The device discharges water by a hand motion in the scanning zone. The water flow period is standardly set to approx. 23 s (adjustable from 3 to 83 by means of DO-5.1). It is possible to stop the shower during the water flow by a repeated hand motion in the scanning zone. When a person leaves the range zone before the time passes (as a standard approx. 23 s), water stops as well.
Temperature setting using a thermostatic mixer. A shower is completed with BYPAS enabling automatic thermal disinfection. Hygienic flush and thermal disinfection functions can be activated using DO-5.1 remote control or an external push-button.

Basic data
– range: approx. 70 cm for scanning
                                  from a person approx. 5 cm
                                  for scanning from a hand
– power supply: 12 V DC
– max. water temperature: 70 °C/80 °C - 10 min.
                                  during thermal disinfection
– water pressure: 0,05- 1,0 MPa
– water flow period: approx. 23 s (adjustable 10-70 s)

Special features
– hygienic flush adjustable from 0-108 hours
– flushing period adjustable from 5-180 seconds
– pre-set to 72 hours and 30 seconds
– possible automatic thermal disinfection activation
– water saving during thermal disinfection

Dimensions
– cover: 240 x 240 x 14 mm (h x w x d)
– connection sizes: R3/8"

SABA R1.2–LIN.1   order No. SE.04.15.46–000
A concealed stainless steel sensor device with a hand motion scanning /START-STOP function/. Temperature setting using a thermostatic mixer. Automatic sequencing of thermal disinfection process and thermal disinfection assessment. Possible sequencing into a group using SNS SNS-2LIN-PTK. Complete with an electromagnetic valve, interconnection hoses and a fixing set. 12 V DC power supply. **The product is delivered without SABA R1.2M installation set.**

Special accessories
– SNS–2LIN–PTK   order No. SE.19.00.14–000
– SP 1 shower rose   order No. SE.07.04.01–000
– SP 3 shower rose   order No. SE.07.08.01–000
– DO–5.1 remote control   order No. SE.09.02.12–210
– DO–5.1U remote control   order No. SE.09.02.07–110
– SABA R1.2-M installation set   order No. SE.04.15.43–000

LIN central control unit (CLC)

SNS-MLU-12V-6LIN-EXP-GSM

Characteristics
- LIN sanitary network system
- CLC control unit with an expander and a GPRS/SIM communication module
- for showers with a LIN communication bus – max. 84 pcs (SLU)
- with an expander for fittings with an external potential-free inlet - max. 36 pcs (SEU)
- bus extension possible with several repeaters - LIN Repeater-1
- WEB Manager program for the sanitary network system management

SNS-MLU-12V-6LIN-EXP-GSM   Order No. SE.19.00.19-000
The CLC control unit with an expander and a GPRS communication module for showers with a LIN communication bus, with an expander for fittings with an external potential-free inlet. WEB Manager program for the sanitary network system management.

Special accessories:
– LSW-1	Order No. SE.19.00.309-000
– LIN REPEATER-1	Order No. SE.09.05.25-000

Specialties:
– print/export to pdf - protocol of summary information about thermal or hygienic flushing for archiving
– LIN communication, three-wire connection

Example of GPRS connection
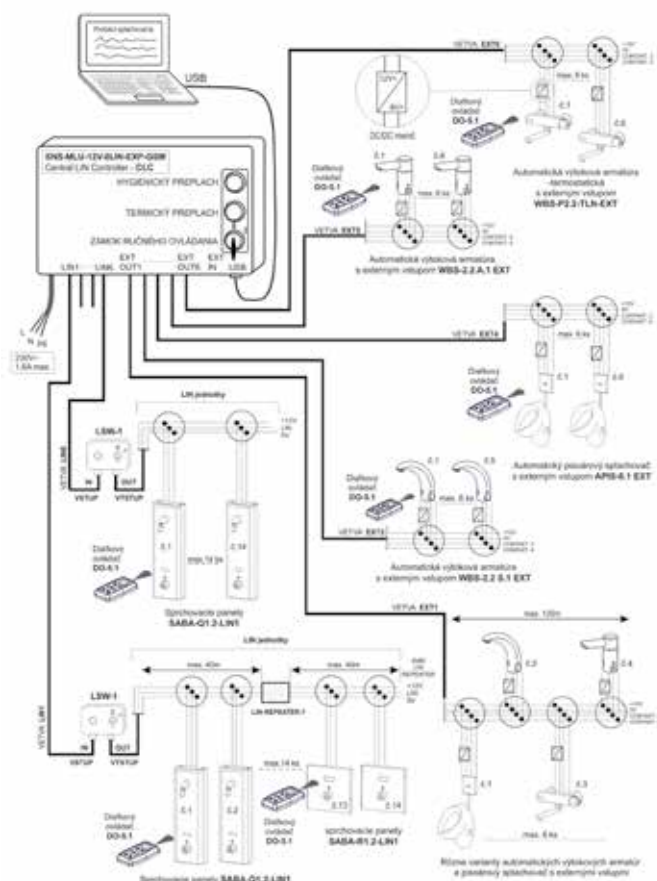
Example of USB connection
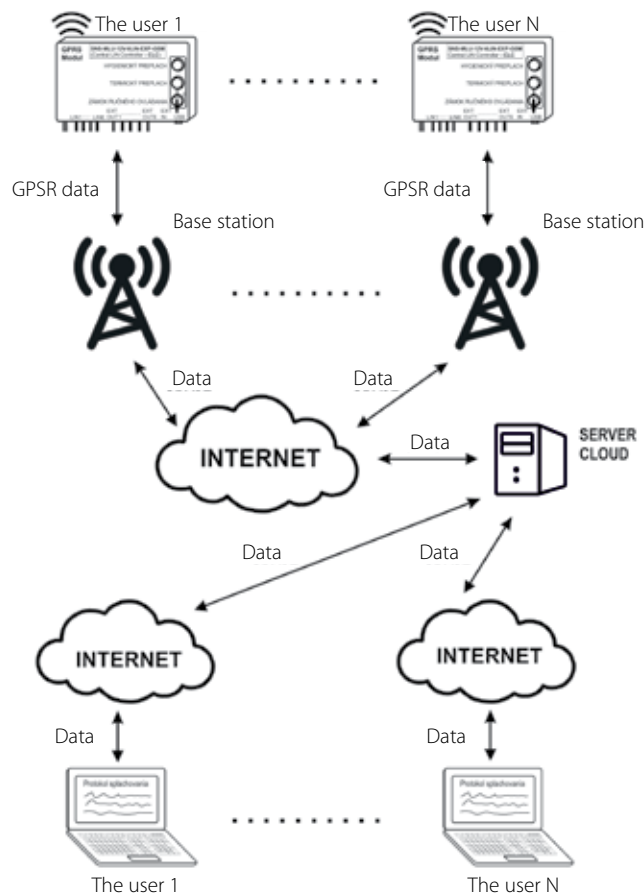
Performance description

SNS-MLU via LIN bus connects, controls and evaluates the showers with LIN connection and fixtures with EXT inlet in one system as a whole while maintaining their autonomous operation. It enables the control and monitoring of thermal disinfection and hygienic flush (manual, external). In addition, it communicates with the user via the Web Manager and with the administrator via the USB interface or via the GPRS module with a SIM card, either locally or remotely. The Web Manager provides:

– detailed overview of the entire system configuration – timer setting for hygienic and thermal flushing
– virtual remote control function for SLU parameter setting
– summary information on thermal or hygienic flushing
– detailed information on thermal or hygienic flushing
– statistical module for estimating water consumption and monitoring the number of valve cycles
– SNS-MLU has a simple manual control on the cabinet door to start processes with status indication.
– secured with a key switch. Special accessories according to the project needs include LIN REPEATER-1 for bus extension (+ 40m), max. 2 pcs / per branch and local branch switches with a LSW-1 pro Service key

Basic data

– max. number of branches 6
– weight/dimensions/protection: 14.4 kg/460x415x136mm / IP42
– max. cable length for LIN branch: 40 m (120 m - 2x LIN REPEATER)
– max. cable length for EXT branch: 120 m
– input nominal voltage: 100-240V AC/50-60Hz
– input nominal current: 1.6A (at 230V AC)
– efficiency: 88%
– connection: 3 x 1.5 mm2
– output voltage: 12V DC (adjustable to 10.8- 13.8V)
– max. output current 6x for LIN branch: 4.5A (at 12V DC)
– max. output current 6x for EXT branch: 4.5A (at 12V DC)
– max. ripple: 120 mVpp (at 20MHz)
– connection: 3M Scotchlok 314 series, 3 x 1.5 mm2, 4 x 1.5 mm2
– digital connection: USB2.0-miniUSB cable M / M, 2.0m

Detailed information on thermal or hygienic flushing

Summary information on thermal or hygienic flushing

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

local LIN power switch
LSW–1

LSW–1   order No. SE.19.00.30–000
Local switch, special accessories for SNS-2LIN-PTK.

Performance description
Used to disconnect the control system from a shower group (service, maintenance, cleaning).

Basic data
– LED condition signalling

Dimensions
– dimension: 120 x 80 x 56 mm (l x w x d)

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bus extender LIN
LIN REPEATER–1

LIN REPEATER–1   order No. SE.09.05.25–000
Bus extender for SNS-MLU-12V-6LIN-EXP-GSM.

Performance description
Used to extend the bus by additional 40 m.
Max. number of LIN REPETER-1 for one branch is 2 pcs,
i.e. max. length 120 m.

Dimensions
– dimension: 56 x 27 x 20 mm (l x w x d)

Special features
– necessary to follow the directional connection
  (possible damage of a controller)

automatic flushing device

opto-electronic

– concealed
– pressure
– zone scanning

Senzor®

automatic flushing device

ASS 4M

Characteristics
• high level of hygiene
• comfortable operation
• high reliability
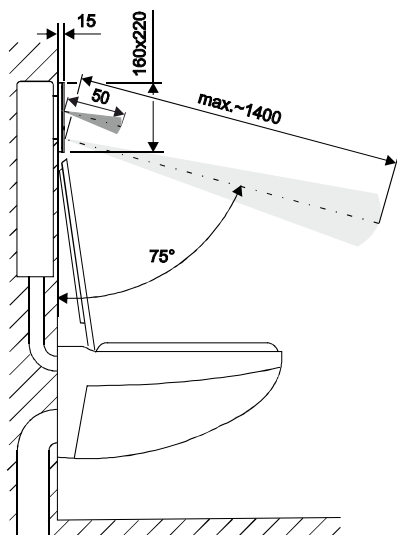• intelligent recognition
• light functions

Performance description
The device optoelectrically scans the surroundings in four zones in front of the device. According to the setting and selection of the user, the flushing performance is selected /small, big, automatic/. It is possible to choose the colour of the light signalling. The welcome light function can be customized individually at request by engraving.

Basic data
– range: zones 5, 50, 80,140 cm
– front panel: tempered glass, black tinted with central
                         and side backlight
– dimensions: 160x200x15 mm
– supply: 6 VDC – 1pc ASS 4M, ZAS 230A/6DS30C
                         power supply (special accessories)
– parameter setting with the DO-5.1 remote control (special acces-
   sories), selected functions - welcome, auto flush, colours, default,
   stop – possible manual setting
– The device is compatible with flush tanks
   SANIT CC-121-S-F0-2V-2C
   (Installation modules SANIT 90 721 00 0000 and 90 721 00 T000)

Specialties:
– archiving of operational statistics – operating time, number of indi-
   vidual flushes, interval between flushes, daily averages, etc.
– possible automatic flush after use
– possible hygienic flush according to the setting after the last use
– external inlet for hygienic flush
– control range testing
– possible to correct the small flush setting
– welcome range setting

ASS 4M   Order No. SE.031444-200
The control part of the touchless automatic flushing system for toilets with optoelectronics, motor drive and glass front panel.
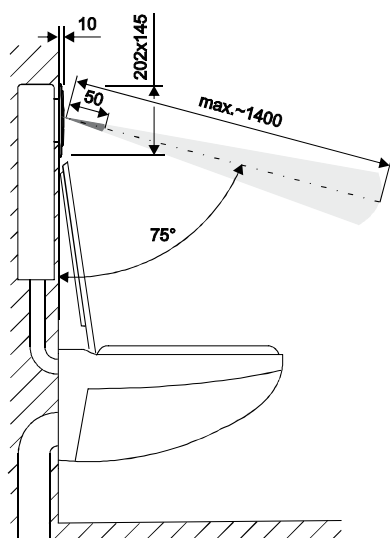
Special accessories
– power supply   Order No. SE.06.21.31 -000
   ZAS 230A/6DS30C for 1pc ASS 4M
– remote control DO-5.1   Order No. SE.09.02.12 -210

automatic flushing device

ASS 6M, ASS 6Mi

Characteristics
– high level of hygiene
– comfortable operation
– high reliabilityintelligent recognition
– automatic flush selection
– possible to supply from battery or mains power

Performance description
The device optoelectrically scans the surroundings in four zones in front of the device. According to the setting and selection of the user, the flushing performance is selected /small, big, automatic /. It is possible to choose the colour of the light signalling. The welcome light function can be customized individually at request by engraving

Basic data
– supply: 230VAC/6 V DC mains supply (special accessory)
  – ASS 6Mi supply from 4 1,5V LR14 batteries
  – ASS 6M – some light functions are limited in the battery version.
– range: zones 5, 50, 65, 80,140 cm
– front panel: white durable plastic with a black visor for scanning and light signalling. Manual white push button for manual control.
– dimensions: 145x220x8 mm
– other colours and material versions are available at request.
– parameter setting with the DO-5.1 remote control (special accessories), selected functions - welcome, auto flush, colours, default, stop – possible manual setting
– the device is compatible with flush tanks SANIT CC-121-S-F0-2V-2C (Installation modules SANIT 90 721 00 0000 and 90 721 00 T000)
– possible to reset counters

Specialties:
– archiving of operational statistics – operating time, number of individual flushes, interval between flushes, daily averages, etc.
– possible to reset counters
– possible automatic flush after use
– possible hygienic flush according to the setting after the last use
– external inlet for hygienic flush
– control range testing
– welcome range setting

ASS 6M   Order No. SE.03.10.52-000
The control part of the touchless flushing system for toilets with the SANIT INEO BRIGHT white plastic cover, optoelectronics and motor drive. With a battery case and 4 LR14 batteries.

ASS 6M   Order No. SE.03.10.52-100
The control part of the touchless flushing system for toilets with the SANIT INEO BRIGHT white plastic cover, optoelectronics and motor drive. Designed for mains power ZAS 230A / 6DS.30C for 1pc ASS 6Mi (special accessories).

Special accessories:
– power supply   Order No. SE.06.21.31 -000
– ZAS 230A/6DS30C for 1pc ASS 6Mi
– DO-5.1remote control   Order No. SE.09.02.12 -210
– electronic push buttons   Order No. SE.03.10.50 -000
  for big/small flush ETL2.-ASS-MOT 6
– YR-3 MOT 6 5-pin hub   Order No. SE.14.00.22 -000
– 5-pin cable 200 cm / 3 X WAGO   Order No. SE.14.00.23 -000
  for push buttons on the handle RAPP5K3-200
– 5-pin hub/2-pin external flush from RS   Order No. SE.14.00.24 -000

automatic flushing device

ASS 3M, ASS 3M TL
ASS 3MN, ASS 3MN TL

| ASS 3M
| ASS 3M TL

| ASS 3MN
| ASS 3MN TL

Characteristics
• high level of hygiene
• comfortable operation
• high reliability
• flushing not dependent on water pressure

Performance description
The device scans a person standing in the scanning zone for at least 14 s. After approx. 4 s after leaving the scanning zone the opto-electronics activates the mechanism which activates flushing. A re-maining mechanic push-button function is an advantage in case of a power supply failure or cleaning.

Basic data
– range: 55 cm
– power supply: 6 V, ZAS 230A/6DSC, ZAS 230A/6DS30C
   possible connection of 1 pc of ASS
– parameter setting by means of DO 2 remote control the device
   is designed for selected flushing devices SANIT: CC-121-S-FO-2V-2C

Special features
possible combination of opto-electrical and electrical push-button flushing or several push-button flushings using a Y-connector

Installation module SANIT

max. 55 cm

68°
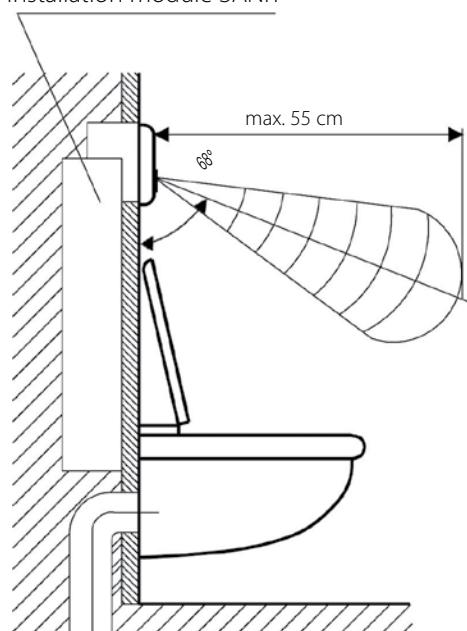
ASS 3M   obj. č. SE.03.10.08–000
Automatic water closet flushing device with a motor part, an optical head and S 703 plastic plate.

ASS 3M TL   obj. č. SE.03.10.18–000
Automatic toilet flushing device with a motor part, an optical head with a push button and a S703 plastic cover with person scanning.

ASS 3MN   obj. č. SE.03.10.09–000
Automatic water closet flushing device with a motor part, an optical head with a push-button and S705 stainless steel plate.

ASS 3MN TL   obj. č. SE.03.10.19–000
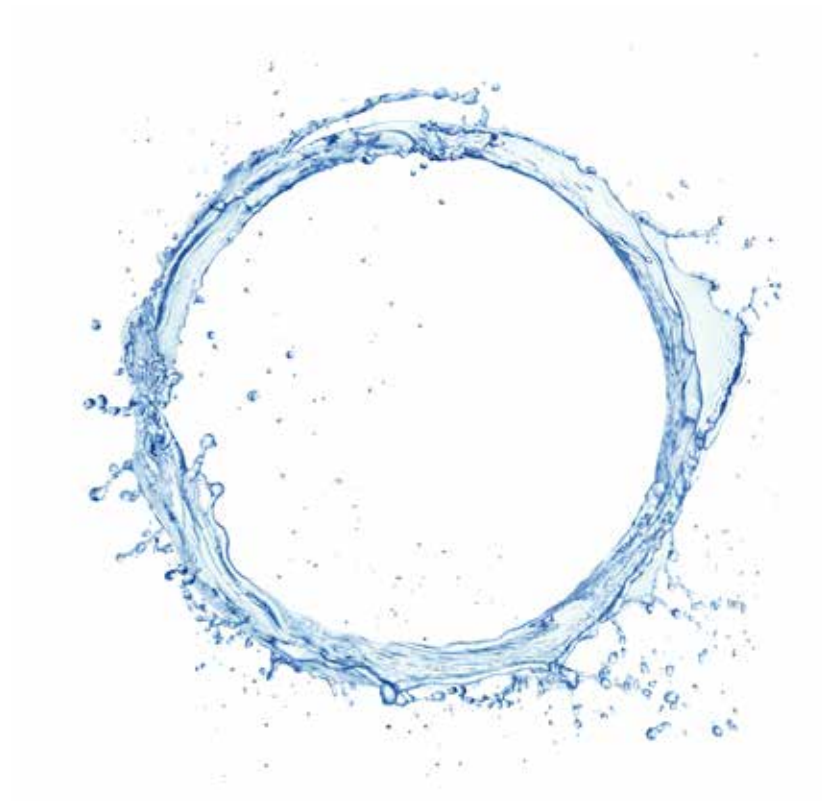Automatic toilet flushing device with a motor part, an optical head with a push-button and a S705 stainless steel plate.

Special accessories
– ZAS 230A/6DSC for 1 db ASS   order No. SE.06.21 30.–000
– ZAS 230A/6DS30C for 1 db ASS   order No. SE.06.21.31–000
– RAPP 600/2F connector with cables   order No. SE.14.00.01–900
– Y–connector   order No. SE.14.00.03–000
– DO–2 2 remote control   order No. SE.09.02.04–000
– DO–2U 2 remote control   order No. SE.09.02.07–000

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

special equipments

– dispensers
– compacts

optoelectronic touchless dispenser

OED-UN-01
OED-UN-02

Characteristics
• high level of hygiene and comfortable
• anti-vandal stainless steel construction
• simple operation and assembly
• 6V battery or 6V DC power supply
• parameter setting with the DO-5.1 remote control
• drip tray and stainless steel stand in special accessories

Performance description
The dispenser is designed for touchless dosing of liquid soap or disinfectant. After bringing your hand in the scanning zone, the device dispenses one dose. The sensor range is approx. 6 cm.
The preset dose lasts 0.75 sec, which corresponds to the volume of approx. 1 ml depending on the liquid viscosity.
The device has a robust construction with a swivelling cover made of stainless steel external material, lockable with a key, with a locking sensor, also suitable for semi-public use.

Basic data
LED signalling:
– hand removal (2 x flash)
– low batteries (1 x flash, after 2 seconds)
– discharged batteries (1 x flash every second until the battery is completely discharged)
– The amount of the liquid can be checked through the sight glass on the front cover.
– The product is factory set. Any parameter adjustments, such as sensor range, liquid flow time, automatic flush when not in use in order to prevent drying, device operation monitoring (time of use, number of cycles), can be made with the DO-5.1 remote control (special accessories).
– wall-mounted by means of screws and fasteners (included)
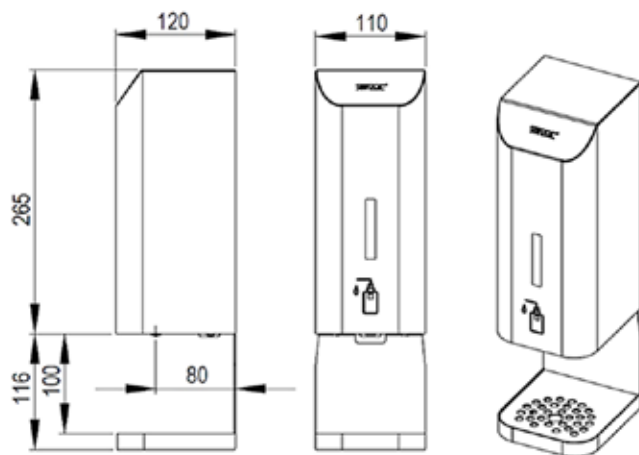
OED-UN-01   Order No. SE.23.00.02-000
– 6V DC battery version with a battery case, 4 x 1,5V C (LR14) batteries. Battery life approx. 50 000 cycles at a dose setting 0.75 sec.
Tank volume 1 litre.

OED-UN-02   Order No. SE.23.00.03-000
– power supply version, without power supply (optional special accessories). Tank volume 1.5 litre.

Special accessories:
– drip tray OD-01	Order No. SE.23.00.06-000
– stainless steel stand 120 CM ST-1	Order No. SE.23.00.07-000
– concealed source 230V, 50Hz/6V DC ZAS 230A/6DS.30C	Order No. SE.06.21.31-020
– power supply 230V, 50Hz/V DC ZAS 230A / 6ST.1	Order No. SE.06.21.34-010
– extension cable 3 m RAPPKAB-1L300	Order No. SE.14.00.25-000
– DO-5.1 remote control	Order No. SE.09.02.12-210

free-standing disinfection column

KSD-01
KSD-02

Characteristics
- all-stainless steel matt finish
- column height 180cm
- with a disinfectant dispenser
- with a hand towel dispenser
- with a swivelling paper bin
- high level of hygiene and comfort
- anti-vandal construction
- simple operation
- 6V battery supply or 6V DC power supply
- parameter setting with the DO-5.1 remote control

Consists of
- OED-UN-01 or OED-UN-02 optoelectrical disinfectant dispenser with a drip tray
- swivelling paper bin with a concealed bag fastening.
  Dimensions: 490 x 400 x 205 mm
- lockable dispenser of folded hand towels, volume 300 - 400 pcs according to the design and folding.
  Dimensions: 355 x 275 x 112 mm

Performance description
The dispenser is designed for touchless dosing of liquid soap or disinfectant.
After bringing your hand in the scanning zone, the device dispenses one dose. The sensor range is approx. 6 cm.
The preset dose lasts 0.75 sec, which corresponds to the volume of approx. 1 ml depending on the liquid viscosity.
The device has a robust construction with a swivelling cover made of stainless steel external material, lockable with a key, also suitable for semi-public use.

Basic data
LED signalling:
- hand removal (2 x flash) – low batteries (1 x flash, after 2 seconds)
- discharged batteries (1 x flash every second until the battery is completely discharged)
- the amount of the liquid can be checked through the sight glass on the front cover.
- the product is factory set.
- any parameter adjustments, such as sensor range, liquid flow time, automatic flush when not in use in order to prevent drying, device operation monitoring (time of use, number of cycles), can be made with the DO-5.1 remote control (special accessories).
- suitable for floor mounting.
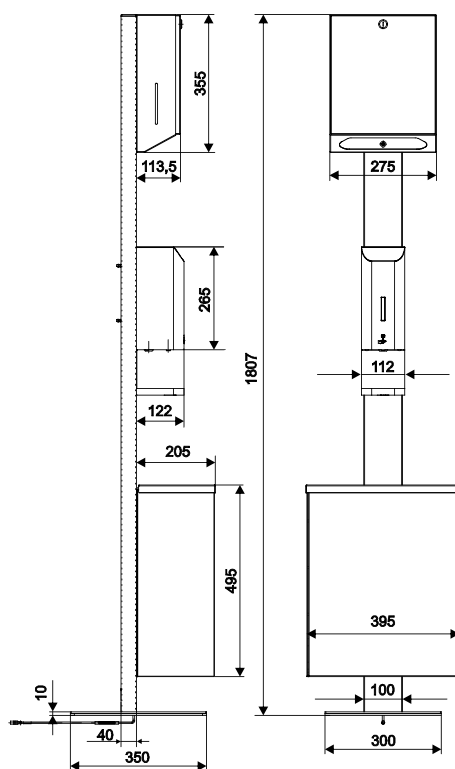
KSD-01 Order No. SE.23.00.04-000
Disinfection column, 6V DC battery version with a battery case, 4 1.5VC (LR14) batteries.
Battery life approx. 50 000 cycles at a dose setting 0.75 sec. Tank volume 1 litre.

KSD-02 Order No. SE.23.00.05-000
Disinfection column, 6V DC power supply version, without power supply (optional special accessories).
Tank volume 1.5 litre, with a 3m extension cable.

Special accessories:
- concealed source 230V, 50Hz/6V DC Order No. SE.06 .21 .31 -020
  ZAS 230A/6DS.30C
- power supply 230V, 50Hz/V DC Order No. SE.06 .21 .34 -010
  ZAS 230A / 6ST.1
- DO-5.1 remote control Order No. SE.09 .02 .12 -210

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

touchless hand washing device

COMPACT 3in1E with electric dryer

Characteristics
• high level of hygiene
• comfortable operation
• high reliabilityintelligent recognition
• compact spatial and functional solution
• ambient and welcome lighting
• simple preparation and installation
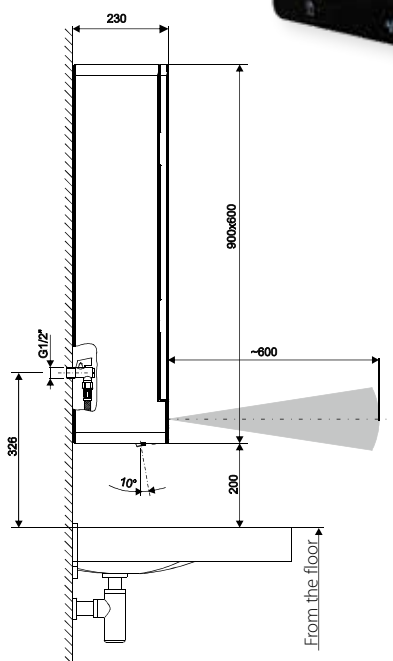
Performance description
The all-stainless steel wall-mounted device in white colour RAL 9016, with a polished stainless steel mirror offers a compact solution of touchless hand washing together with liquid soap dosing and efficient hand drying. The optoelectrical sensing of the hand presence determines the triggering of individual functions. The function is controlled electronically. The electronics also provides the mutual blocking of the device, parametrization, as well as access to statistical data on the device operation.

Basic data
– range: approx. 10 cm, welcome approx.60cm.
– dimensions: 600 x 900 x 227 mm
– magnetic door lock
– supply: 230V, 50Hz
– parameter setting and function control with the DO-5.1 remote control (special accessories), e.g.: light setting, stop, counter reset, default values, tests, ranges, hygienic flush, flush to prevent drying,
– recommended water pressure 1 - 5 bar, flow 2.8 l / min
– automatic range adjustment
– soap dose setting
– setting of the dryer hot air speed 75 -100 m/s, input power 350 - 700 W. Heating element 900 W. Drying time less than 15 seconds at full capacity 1600 W.
– auto switch-off of the dryer after 60 sec.

Specialties:
– archiving of operational statistics – operating time, lighting time, cycle counters, current reach, hygienic rinsing, dosing time, etc.
– white, tempered glass panel with backlit pictograms
– possibility of engraving a backlit logo to measure
– auto water shutdown in case of permanent obstacle in range
– sensing and signaling of soap filling
– storage space for spare filling
– possibility of hygienic rinsing according to the settings after the last use
– preparation for thermal disinfection
– control impact testing

Compact 3in1E with electric dryer
Order No. SE.02.71.19-000
Compact all-stainless steel sanitary device – soap dispenser, water faucet, electrical hand dryer – in white powder colour RAL 9016, with a polished stainless steel mirror, touchless, electronically controlled.

Special accessories:
– DO-5.1 remote control   Order No. SE.09.02.12-210

touchless hand washing device

COMPACT 3in1 P with hand towel dispenser

Characteristics
• high level of hygiene
• comfortable operation
• high reliabilityintelligent recognition
• compact spatial and functional solution
• ambient and welcome lighting
• simple preparation and installation

Performance description
The all-stainless steel wall-mounted device with a polished stainless steel mirror offers a compact solution of touchless hand washing together with liquid soap dosing and a hand towel dispenser. The optoelectrical sensing of the hand presence determines the triggering of individual functions. The function is controlled electronically. The electronics also provides the parametrization, as well as access to statistical data on the device operation.

Basic data
– range: approx. 10 cm, welcome approx.60cm.
– dimensions: 600 x 900 x 227 mm
– magnetic door lock
– supply: 230V, 50Hz
– parameter setting and function control with the DO-5.1 remote control (special accessories), e.g.: light setting, stop, counter reset, default values, tests, ranges, hygienic flush, flush to prevent drying,
– recommended water pressure 1 - 5 bar, flow 2.8 l / min
– automatic range adjustment
– soap dose setting
– dimensions of folded paper towels 229 x213 mm
– capacity of the dispenser approx. 375 pieces of towels
– internal dimensions of the container 229 x 119 mm

Specialties:
– archiving of operational statistics – operating time, lighting time, cycle counters, current reach, hygienic rinsing, dosing time, etc.
– white, tempered glass panel with backlit pictograms
– possibility of engraving a backlit logo to measure
– auto water shutdown in case of permanent obstacle in range
– sensing and signaling of soap filling
– sensing and signaling the filling of the towel dispenser
– storage space for spare filling
– possibility of hygienic rinsing according to the settings after the last use
– preparation for thermal disinfection
– control impact testing
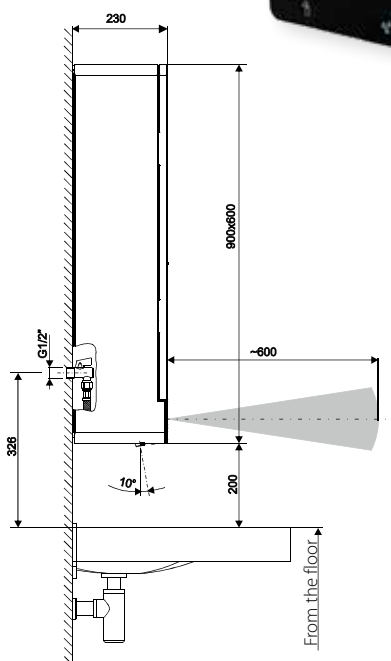
Compact 3in1 P with hand towel dispenser
Order No. SE.02.71.19-100
Compact all-stainless steel sanitary device – soap dispenser, water faucet, hand towel dispenser – in white powder colour RAL 9016, with a polished stainless steel mirror, touchless, electronically controlled.

Special accessories:
– DO-5.1 remote control   Order No. SE.09.02.12-210

accessories

– power supplies
– shower outlets
– remote control

Senzor®

power supply

ZAS 50/12t

Characteristics
• accessories
• safe voltage source
• plastic box
• switch
• LED signaling

Basic data
– inlet: 230 V, 50 Hz
– outlet: 12 V~, max. 50 VA – ZAS 50/12t

– ZAS 50/12t   – power switch
                              – LED - switch on signalling
                              – IP40 protection
                              – T5A fuse

Special features
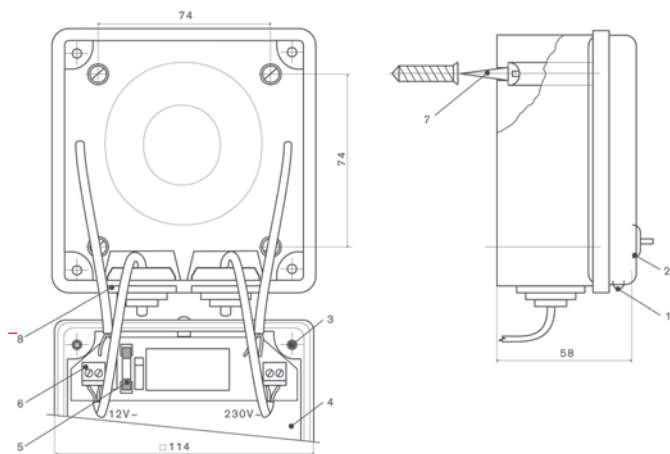– ZAS - recommended installation position approx. 2,25 m above the floor.

Dimension
– ZAS: 114 x 114 x 58 mm

ZAS 50/12t   **Order No. SE.06.21.21–000**
– power supply 230 V, 50Hz/12V AC, 50 VA

power supply

ZAS 230A/6DSC

Characteristics
• accessories
• safe voltage source with 6-7 V DC power supply
• plastic box

Basic data
– inlet: 230 V/50 Hz
– outlet: 6–7 V DC

Performance description
Transformer is used for supplying 1 pc urinal flushing devices with 6 V power supply or for supplying 1 pc ASS 3M, or for supplying 1-3 pcs WBS.B.

Not possible to use it for shower devices.

Dimensions
– 66 x 60 x 49 mm
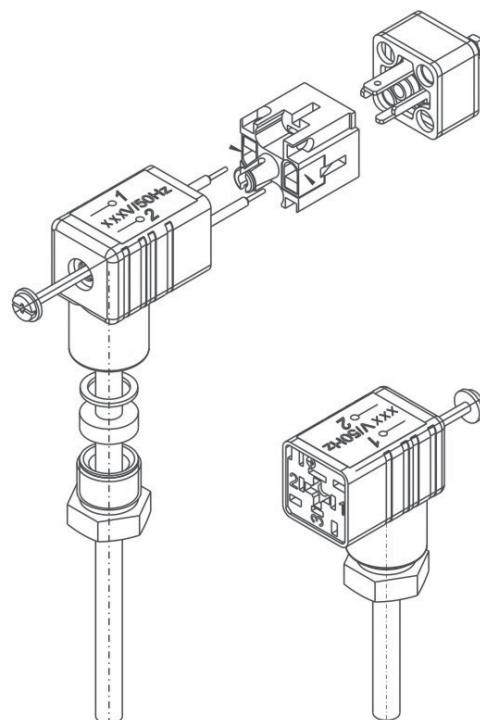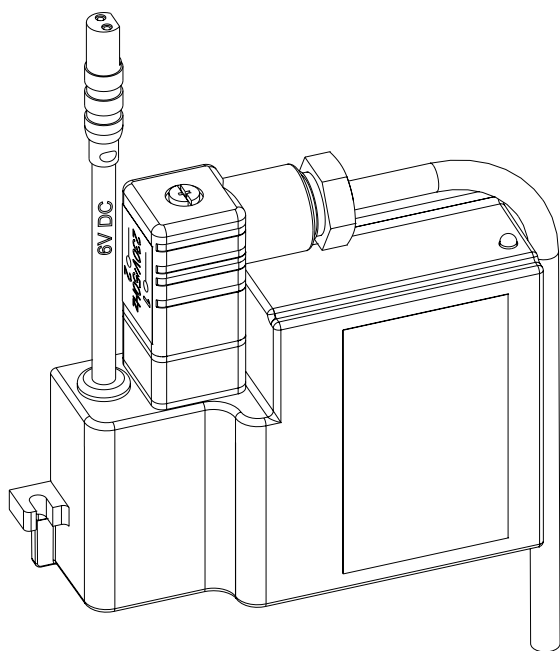
ZAS 230A/6DSC   Order No. SE.06.21.30–000
– power supply

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

power supply

ZAS 230A/6DS.30C

Characteristics
• safety voltage source for appliances with 6 V, DC power supply, with accessories

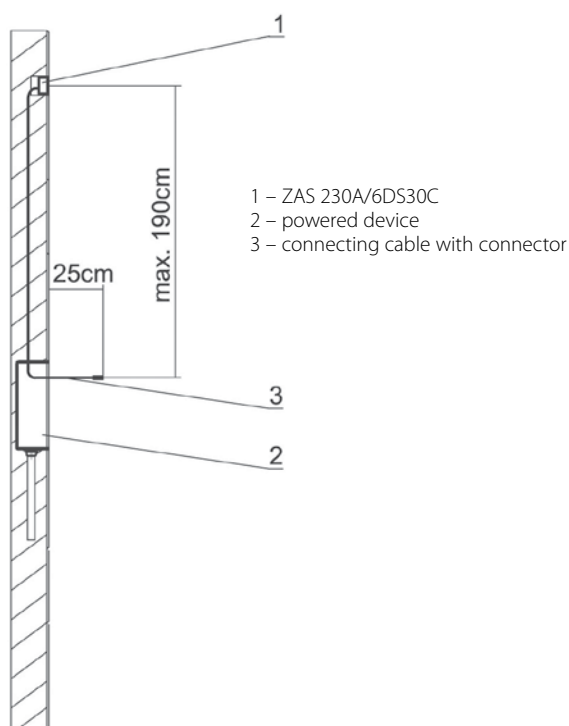### Basic data
– inlet: 230 V, 50 Hz
– outlet: 6 V DC
– dimensions source :   58,5 x 45 x 19,8 mm
– dimensions box :   o 72 x 72 mm

Performance description
The transformer is used to supply max. 5 pcs urinal sensors or 3 pcs WBS fixtures with 6 V DC power supply (necessary to purchase RAPP 600/2F connectors), or to supply 1 pc ASS 3M. SABA products - possible to supply max. 3 pcs.
The power supply box must be placed outside the bathtub and shower area, according to STN 33 2000-7-701 standard.

1 – ZAS 230A/6DS30C
2 – powered device
3 – connecting cable with connector

max. 190cm

25cm

WIRING DIAGRAM

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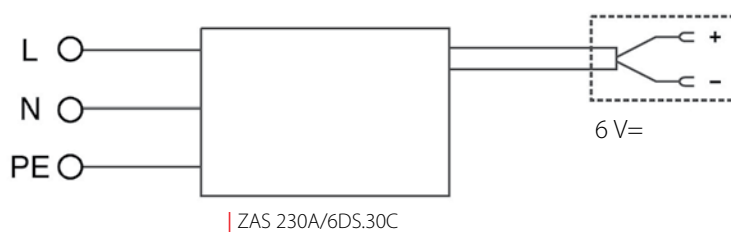
| ZAS 230A/6DS.30C

ZAS 230A/6DS30C   **Order No. SE.06.21.31–020**
Power supply in a plastic box with a cable, WAGO terminals at the inlet, a RAPP connector at the outlet, an installation box and an installation box lid.

ZAS 230A/6DS30C   **Order No. SE.06.21.46–000**
Power supply in a plastic box with a cable, WAGO terminals at the inlet, an installation box and an installation box lid.

Special accessories
– RAPP 600/2F connector with a cable   Order No. SE.14.00.01–900

power supply

ADAPTER ZAS 230A/6ST.1
ADAPTER ZAS 230A/12A.1 | ADAPTER ZAS 230A/12A.2

Characteristics
• accessories
• safety voltage source
• plastic box

Basic data
• ZAS 230/6ST.1
– inlet: 230 V, 50 Hz
– outlet: 6 V DC
• ZAS 230A/12A.1, ZAS 230A/12A.2
– inlet: 230 V, 50 Hz
– outlet: 12 V~

Performance description
ZAS 230/6ST.1
The adapter is used to supply max. 1 pc urinal sensors or 1 pc WBS fixtures with 6 V DC power supply, or 1 pc ASS 3M. It cannot be used for shower sensors where direct flooding with water might occur!!!
ZAS 230A/12A.1, ZAS 230A/12A.2
The adapter is used to supply max. 1 pc urinal sensor or 1 pc WBS fixture with 12 V~ power supply.

Dimensions
– ZAS 230/6 ST.1 adapter: 26 x 50 x 60 mm (v x š x h)
– 230V/12 V adapter: 72 x 56 x 67 mm

| ZAS 230/6ST.1

| ZAS 230A/12A.2

ZAS 230/6ST.1   Order No. SE.06.21.34–010
6 V DC power supply with a cable - 240 cm, terminated with RAPP connector.

ZAS 230A/12A.1   Order No. SE. 06.21.32–900
12 V power source with a cable - 250 cm, for a connection to the terminal board.

ZAS 230A/12A.2   Order No. SE. 06.21.34–900
12 V power supply with a cable - 55 cm, terminated with RAPP connector.

Special accessories
– RAPP 600/2F connector with a cable   Order No. SE.14.00.01–900

power supply

CR P2, PB–1, PB–3S
ZAS 24AD/6D

PB–1   Order No. SE.06.21.52–000
Plastic CR-P2 battery case.

PB–3S   Order No. SE.06.21.16–900
Plastic case for 4 C-LR-14 batteries, terminated with a RAPP connector.

Bateria 6 V CR P2   Order No. SE.06.16.01–000
6 V lithium battery to supply 6 V devices.
Supplier change is reserved.

ZAS 24 AD/6D   Order No. SE.06.21.39–000
Adapter of power supply from 12 V ÷ 24 V AC/DC to 6 V DC with connection cables.

Characteristics
• easy to adapt the existing power supply to 6 V DC

Basic data
– adapter of power supply from 12 V ÷ 24 V AC/DC to 6 V DC

Dimensions
– 27 x 20 x 56 mm (h x w x d))

shower outlets

SP 1
SP 3

| SP 1

| SP 3

– head with a small relief
– resistant to clogging

Characteristics
• accessories for automatic showers

Basic data
– flow: SP 1, SP 3:   cca 7 l/min.
– SP 1   – adjustable direction

Special features
SP 1, 3   – small dimension, solid, short shape
               – anti-vandal version
               – complet with cover rosette

Dimensions
– lenght   SP 1:   cca 70 mm
                 SP 3:   cca 60 mm
– connection: G 1/2"

SP 1   Order No. SE.07.04.01–000
SP 3   Order No. SE.07.08.01–000

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

water outlets

VTK

VTK-03-120   Order No. SE.07.20.22-000
Outlet P2, P3, 120mm
With aerator and flow regulator 6l.

VTK-03-160   Order No. SE.07.20.20-000
Outlet P2, P3, 160mm
With aerator and flow regulator 6l.

VTK-03-200   Order No. SE.07.20.21-000
Outlet P2, P3, 200mm
With aerator and flow regulator 6l.

VTK-PR-120   Order No. SE-07.20.15-000
Slip-on outlet, direct, 120mm
With aerator and flow regulator 6l.

VTK-PR-170   Order No. SE.07.13.01-000
Slip-on outlet, direct,170mm
With aerator and flow regulator 6l.

VTK-OH 120   Order No. SE.07.20.18-000
Slip-on outlet, bent, 120mm
With aerator and flow regulator 6l.

VTK-OH-170   Order No. SE.07.20.19-000
Slip-on outlet, bent, 170mm
With aerator and flow regulator 6l.

VTK-05-185   Order No. SE.07.2024-000
Standard outlet, L1, L2, discharge 185mm
With aerator and flow regulator 6l.

VTK-04-245   Order No. SE.07.20.23-000
Double-bent outlet, L2, discharge 245mm
With aerator and flow regulator 6l.

remote control

DO–2
DO–2U

| DO – 2

Characteristics
• optics range setting
• water flow period setting
• hygienic flush setting
• switching a device on and off

Performance description
A control is used to set or change factory-set parameters of individual devices of APIS, WBS, SABA, ASS types.

Basic data
– range: max. 30 cm
– function indication: LED
– power supply: 2 x 1,5 V alkaline AA
– battery life: approx. 2 years

Dimensions
– 80 x 60 x 25 mm

DO – 2   Order No. SE.09.02.04–000
A remote control for parameter setting, possible to switch off a device, 4 buttons.

DO – 2U   Order No. SE. 09.02.07–000
A remote control for a cleaning service using START - STOP function. It switches a device on and off, two buttons.

| DO – 2U

Parameter setting for sensor types:

APIS
– range
– water flow period
– pre-flushing
– sensitivity

WBS
– range
– water flow period
– switching off delay time
– hygienic flushing – cycle
                     – time
– thermal disinfection
– maximum range restriction

SABA
– range
– short, long range
– water flow period
– hygienic flushing – cycle
                   – time
– thermal disinfection

ASS
– range
– water flow period

Specific options of parameter setting for individual products are stated in the instruction manual.
The installation process is described in DO-2 instruction manual.

remote control

DO–5.1,
DO–5.1U

| DO – 5.1

Characteristics
• optics range setting
• water flow period setting
• hygienic flush setting
• switching a device on and off
• two-way communication
• multi-line display
• easy operation

Performance description
A control is used to set or change factory-set parameters of individual devices with electronics for parameter setting by means of DO-5.1 remote control.

Basic data
– range: max. 30 cm
– function indication: LED
– power supply: 2 x 1,5 V alkaline AA
– battery life: approx. 2 years

DO–5.1   Order No. SE.09.02.12–210
A remote control for parameter setting, product condition loading, product data change, product diagnostics, START - STOP function.

Dimensions
– 118 x 80 x 25 mm

| DO – 5.1U

DO–5.1 U   Order No. SE.09.02.07–110
A remote control for a cleaning service with START - STOP function. It switches a device on and off, two buttons.

Pushing both buttons at the same time enables shifting from DO-2U mode to DO-5.1U mode, which is indicated by LED.

Dimensions
– 80 x 60 x 25 mm

Specific options of parameter setting for individual products are stated in the instruction manual. The installation process is described in DO – 5.1 instruction manual.

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

installation box

STS 0502C
APIS 6–5 M

Dimensions
– 180 x 148 x 67 (h x w x d)
– G1/2"

STS 0502C   Order No. SE.10.06.07–000

An installation set for APIS 4.1, suitable for installations to on-wall constructions as well as for bricking in, with an installation box, inlet and outlet screwing, a valve adapter, a ball valve with a filter, a defining cover for tiling, a battery and source holder or with an opening for an external power supply.

Dimensions
– installation box: 121 x 96 x 72 mm
– installation opening: 130 x 130 x 75 mm
– connection sizes: G1/2" with a brass inside thread

APIS 6-5 M   Order No. SE.10.06.04–021

An installation set for APIS 6 products, with a water inlet from the top, suitable for installations to on-wall constructions as well as for bricking in, with an installation box, inlet and outlet screwing, a cylindrical valve, a filter, a defining cover for tiling, with a valve seat plug for installation and flushing, a battery and source holder or with an opening for an external power supply.

A detailed description of the device, see the supporting documentation. Subject to technical modifications. Special accessories not included in the delivery.

Legionella bacteria in water distribution systems and protection against them

98/93/EG Directive of the European Union Council on quality of water for human use implemented a binding qualitative standard for the European Union member state. The water quality issue is up-to-date from several new points of view. It concerns not only drinking water, but also water used for personal hygiene, use in the household (preparation of food, cooking, cleaning especially in relation to food). Already valid regulations (e.g. in Germany VDI 6023, DVGW W551 and in the Czech Republic Decree No.

252/2004 Coll.) specify, among others, maximum permissible Legionella bacteria concentrations. Legionella bacteria was first detected in relation to lung diseases at a convention of American legionnaires in Philadelphia in 1976. Later, more than 39 kinds of Legionella bacteria were known, whereby Legionella pnemophila species is involved in approximately 90 % infections in humans.

Legionella cause two known diseases:

| legionnaires' disease with an incubation period of 2 - 10 days, which without adequate antibiotic therapy might result in severe complications, even death.
| Pontiac fever with an incubation period of 1 - 2 days, curable with medication.

Diseases caused by Legionella are characterised by the same symptoms as other bacterial lung diseases (pneumonia) and they cannot be diagnosed without laboratory tests. Plenty of antibiotics used for treatment of common bacterial pneumonia have only limited or no effect on Legionella bacteria. An annual number of diseases caused by Legionella bacteria in the USA is approximately 10 000 - 20 000 cases, in Germany approx. 6 000 - 10 000 cases. In fact the number of cases is higher, as a result of the absence of microbiological tests of the undiagnosed. Anybody can be infected. Risk groups involve people with immunodeficiency conditions, patients after surgeries, with chronical diseases, etc. The risk is increased by alcohol and nicotine use or advanced age (more than 65). The disease is not very common for children. Legionella bacteria can be found in water distribution systems. They occupy mostly peripheral parts of pipelines together with other microorganisms and sediments enabling them to grow. An optimal condition for their growth is the water temperature within 25 - 42 °C. It is possible to get infected by breathing in water aerosol, e.g. while having a shower, but for risk groups even when drinking water with a high concentration of Legionella. The disease transmission from one person to another is excluded. Due to unique Legionella bacteria features it is not possible to exclude their presence in water distribution systems, especially in a hot water distribution. All efforts are aimed to keep the Legionella bacteria microbiological concentration at an acceptable level (DVGW W551).

There are several disinfection procedures:

| chlorination
| thermal disinfection
| ultrafiltration
| ultra-violet radiation
| copper and silver ionizing

Local delivery points can be treated by means of microfiltration. Chlorination and thermic disinfection appear to be universal methods for the whole distribution system. Due to relative insensitivity of Legionella bacteria to permissible concentrations of chemical disinfectants containing chlorine and chlorine dioxide, this simplest disinfection cannot be performed (effective concentration starting at 10 mg/l, permissible concentration for drinking water 0,3 or 0,4 mg/l).

An overall increase of the temperature in water distribution systems is a much more effective way. With the increase to 55°C Legionella bacteria concentration decreases to one third in 1 hour and with the water temperature of more than 60°C the bacteria are destroyed immediately. Experience shows that, in practice, it is not possible to maintain the existing distribution networks at this temperature to the full extent permanently, especially in such cases where it is necessary to consider a protection against scalding, such as retirement homes, psychiatric clinics and correctional-educational institutions. This problem also covers hospitals, hotels, sports facilities, recreational and rehabilitation facilities, etc. Thermal disinfection is one of the solutions. It is based on an discontinuous process of heating the water in distribution systems over 70 °C and flushing the distribution systems with opened outlet fixtures (showers, water faucets) for a period of at least 3 minutes.

SENZOR products
in the battle against
Legionell bacteria

Touchless armatures are especially suitable for effective support of the fight against Legionella.
They are programmable and therefore suitable to perform special, automatic functions i.e. controllable from a master center.

Periodical **thermal disinfection** – the armatures must enable the open position for the cycle of thermal disinfection and must be resistant to flushing water with temperature over 70 °C. The shower armatures SABA 2NTB.11R, SABA 1NTB.11R, SABA P2 with thermostat bypass BYPAS.11BR fulfill these requirements. Operating is possible by a foot control or by a led-out potential free input, while the return into the initial mode is automatic after 10 minutes. For safety reasons, any detection within the sensor reach during the thermal disinfection cycle causes its immediate interruption. Similar possibilities are offered by the lavatory faucet WBS 2.2 Eurora in a special version with an external potential free input.

Hygienic flushing. In the case of the following showers: e.g. SABA 2NTB.11, SABA 2NTB.11R, SABA 2TLT, SABA 1TL and in case of following washbasin faucet: e.g. WBS 2.2 Eurora, WBS 2.2, WBS 5.1BS, the hygienic flushing is activated by a remote control device. It serves for regular armature flushing, i.e. discharging the water, that has stayed in the piping for a long time. It refreshes the volume of water in the pipes and keeps the concent-ration of legionella low. Hygienic flushing is not disinfection! The interval between the flushes is adjustable by the remote control device within the range from 12 to 108 hours.

Devices with the **EIB communication**. Senzor also produces certain products according to the European Installation Bus standard, useable in building management systems. The devices feature, besides autonomic function, also ability to communicate with a master system according to a special protocol. Within the given system it is possible to conformly meet the microbiological hygiene requirements by this devices. At present, the washbasin faucet WBS 2.2 EIB and the urinal flusher APIS 4 EIB incorporate this device.