Instructions for installation and use

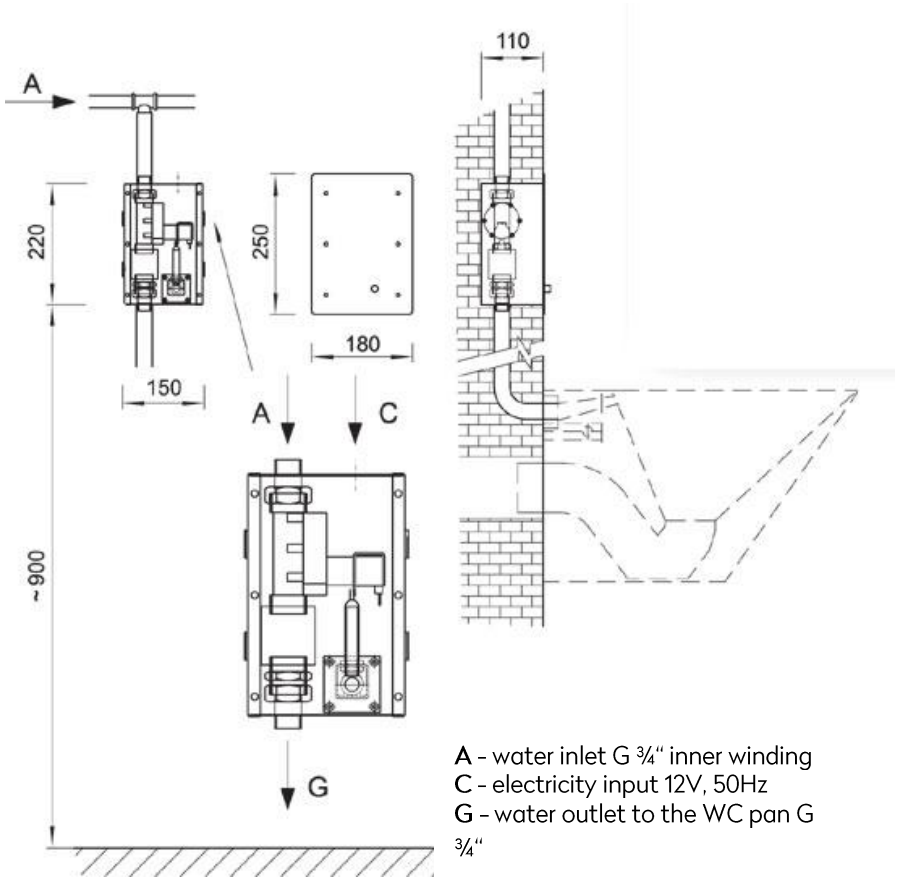
BSAZ 01 – Anti-vandal toilet flushing device

BASIC TECHNICAL DATA

Time of water flow:	1 s – 45 min (step 1 s) – adjusted to 6 s
Time of pause:	0 s – 45 min (step 1 s) – adjusted to 30 s
Sanitary Flush:	Turn off
Power supply:	12 V, 50 Hz
Power requirement:	6 VA
Water pressure:	0,1 – 1,0 MPa
Minimal required water flow in piping:	70 l/min
Recommended source of power supply:	ZAC 1/20 (max. 3 x BSAZ.01) ZAC 1/50 (max. 8 x BSAZ 01)
Dimensions:	250 x 180 (front cover) x 110 mm
Weblink:	BSAZ 01

Description and function of vandal-proof WC flushing system

- BSAZ 01 is a stainless steel flushing system for closet intended for building in the wall. BSAZ 01 is intended for direct flushing for closets without water tank/reservoir. The water starts to flow after the button is pushed and flows for preset time. The flushing cycle can be repeated by another push of the button. The enforced pause can be preset after the second flushing cycle. During this pause the water will not flow even if the button is pushed. The pause can be preset for 0 – 40 minutes. If the preset time is 0 min. it is possible to use the shower at any time by another push of the button.



A - water inlet G ¾“ inner winding
C - electricity input 12V, 50Hz
G - water outlet to the WC pan G ¾“

Installation

Setting up construction

1. A 260 x 160 x 110 mm alcove in the wall. The installation box is walled into the alcove at the level of tiles or max. 15 mm beneath the tiles. The installation box must not exceed over the tiles. Water inlet connected to the

assembly box, finished with ¾" inner thread according to the scheme and prepared water outlet into the closet pan.

2. A filter must be set up in the water inlet to the shower unit or group of shower units for removing mechanical dirt from the water. The reliability of solenoid valve is increased significantly.
3. Set up electricity cable CYKY 2A x 1,5 from the source of power supply ZAC to the alcove.

Assembly

1. Connect the electricity input cable for electronics - 12V, 50 Hz - the polarity is not important.
2. Connect the blade/knive connectors on the solenoid valve - the polarity is not important.
3. Test the functionality.
4. Screw the cover to the installation box. To prevent water leaking into the wall, it is necessary to seal the cover with the suitable binder/silicon mastic (e.g. transparent silicon) on top, left and right side. Do not seal the bottom side.
5. Set the required time of water flow and pause and the volume of water flow. Water flow is decreased by screwing in the screw in the middle of valve flange – the lift of the membrane is restricted/limited.

Setting

- All electronics must be set separately.
- The drinking fountain may be set only within 20 minutes after power supply is turned on. If it was connected for a longer time, turn off the supply voltage for approx. 5 seconds, then turn it on again and perform the setting within 20 minutes. To change from the operating mode to the setting mode, place the magnet approx. 30 mm by the control diode for at least 1 second.
- Setting – Place the magnet by the diode – red light will appear. If the magnet is not placed long enough (less than 1 sec) green light will appear – the electronics will return to its original condition.
- Water running time: Press the pushbutton shortly within 5 sec after the red light comes on (water starts running). Press the pushbutton again to finish the setting – water will stop running and the electronics will change into the operating mode. The time between both pressings is the set time of water running.
- Pause time: After 5 sec since the magnet was placed by the diode, indicator will start flashing red and green and the setting of the pause time will start. Finish the pause time setting by pressing the pushbutton. If no pause is required (i.e. water will run for the time set every time the pushbutton is pressed), the pushbutton shall be pressed within 5 sec after the diode has started flashing red and green; zero time – no pause - will be set.
- **Sanitary Flush**: Disconnect the electronics from the power supply. Place the adjustment magnet against the unit. With the magnet in place, reconnect the electronics to the power supply. Leave the magnet in place for 10 seconds (until the LED stops flashing). You can now remove the magnet. The LED flashes green (shower mode is active) or red (sink mode is active). Briefly place the magnet against the unit. The flush settings are now being configured. The LED flashes twice red (off), twice green (3 hours), twice orange (6 hours), red-green (12 hours), or orange-green (24 hours). Press the button to cycle through the flush settings. To save the settings, briefly hold the magnet against the sensor; the electronics return to their default state, and the LED lights up green.

Control diode

Standard operation mode:	green light – ready for operation red light – control button pushed down green light flashing – electromagnetic valve switched on orange light – enforced pause
Setting mode:	red light – electronics is in setting mode red light flashing – setting of water flow time

red and green light flashing – pause setting

Attention

- The flushing system BSAZ 01 can be connected only to the ZAC power supply, in other cases the manufacturer does not take the responsibility for reliable functioning or eventual damage arising from connection to other power supply unit.
- The connection of the electronics can be performed only by qualified and competent worker.
- It is necessary to carry out the initial revision of electric devices before starting operation.
- Routine revisions of the electrical equipment have to be carried out.

Complete delivery

Installation box	1 pc	Backflow valve	1 pc
Magnet	1 pc	Solenoid valve	1 pc
Casing with electronics and sensor	1 pc	Screw extension for safety bolts	1 pc

Possible failures (warranty is not applied) and their solution

Failure	Cause	Solution
The pilot light will not blink after switching on	- Power source is not switched on - Connected to 230 V	-Switch on the power source -Irreparable–electronic is destroyed
Insufficient water flow	Broken (burst) membrane	-Change the membrane
Water does not flow – when pushing down the controll button, the control diode is green	- Defect on inductive sensor	Check the distance between the push button and inductive sensor – the sensor is probably too far from the button (does not react when button is pushed)
Water flows constantly – electronics functions properly	- Dirt in the electromagnetic valve	-Clean the valve

Maintenance and cleaning

- The device was made from the stainless steel of quality corresponding with ČSN 17 240 (AISI 304) standard and, therefore, it must not be operated in chemically-aggressive environment and
- Preparations containing chlorine must not be used for its cleaning!!
- Cleaning agents by WÜRTH are recommended:
  - Metal renewal agent - Order No. 893 121 1
  - Stainless steel spray treatment - Order No. 0893 121 – K.
- If corrosion has already occurred, it can be removed with a cleaner INNOSOFT B 570 from the company Emergo.

Valve cleaning

- Screw out three spins holding the coil. Remove the coil; carefully take out plastic covering of the core; (be careful not to lose the spring). Remove the membrane, clean the space underneath. Check out the clearness of both inlets in the plastic centre of the membrane and insert the valve. It is necessary to observe the water flow direction at the back assembly – the arrow on the valve.