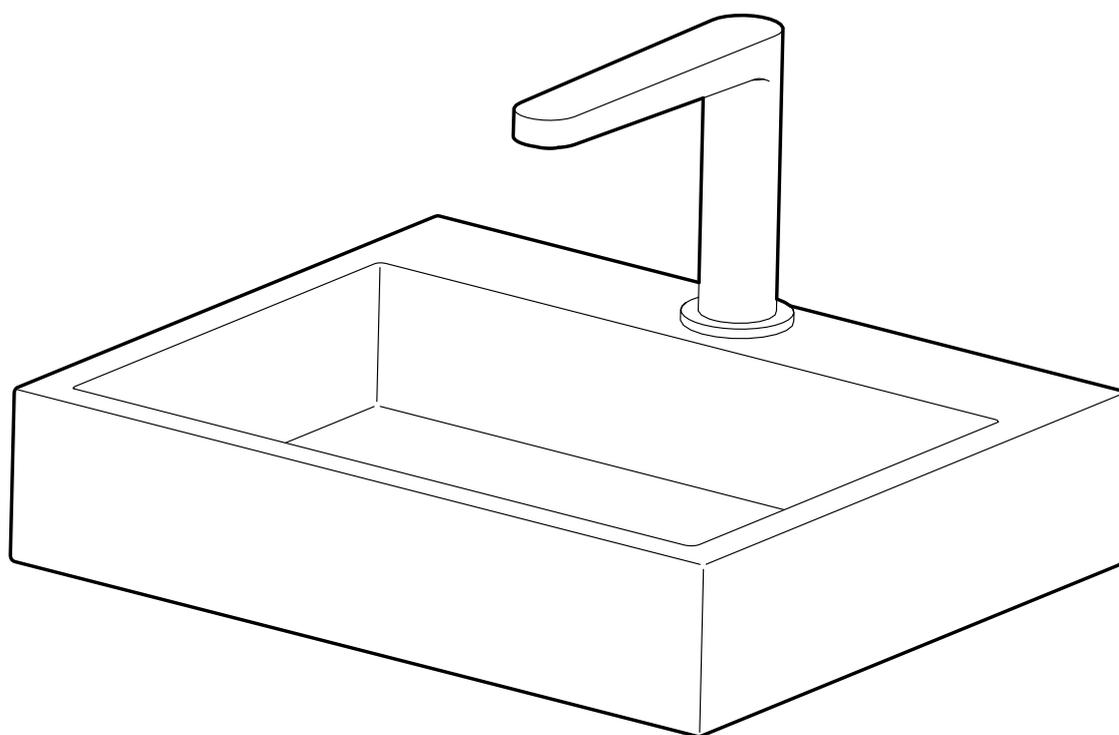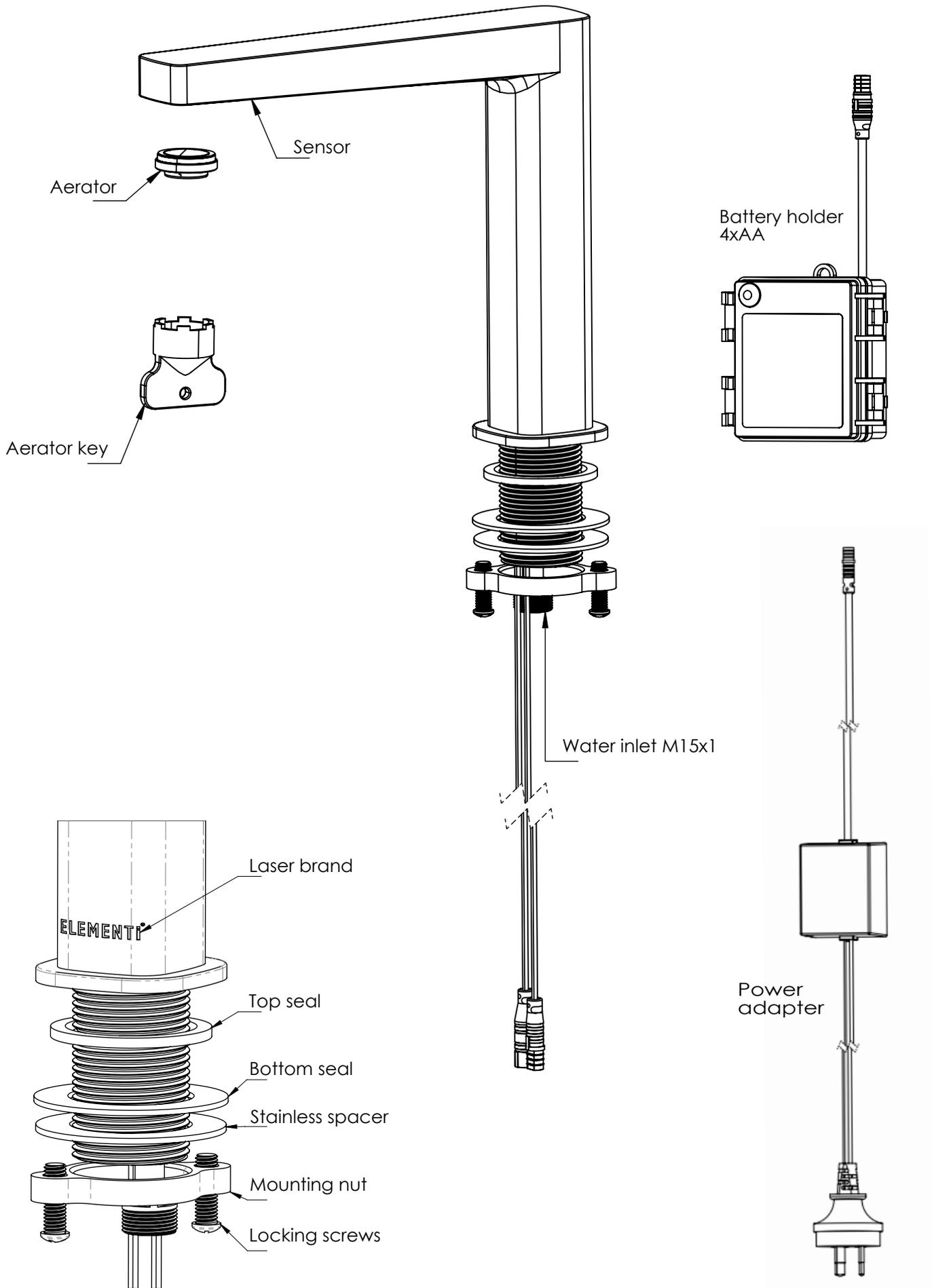# ELEMENTi
QUADRATE
CBS SENSOR FAUCET

Installation instructions

Reference:FH004

robertson®
BATHWARE

www.robertson.co.nz

FAUCET CONFIGURATION

Sensor

Aerator

Aerator key

Battery holder
4xAA

Water inlet M15x1

Power
adapter

Laser brand

ELEMENTI

Top seal

Bottom seal

Stainless spacer

Mounting nut

Locking screws

BEFORE YOU BEGIN

INSTALLATION
• The faucet can be installed on any sink material (ceramic or stainless steel).
• Read this instruction manual carefully before beginning installation.
• Drain and clean the water pipes before installing the faucet.
• Make sure there are only electronic certified products (CE, UL…) near the faucet
  to achieve optimum performance.
• Wait until the end of calibration before using the faucet.
• The lowest and highest operating pressure to be 150-500 kPa.
• The minimum flow rate must be > 1L/min
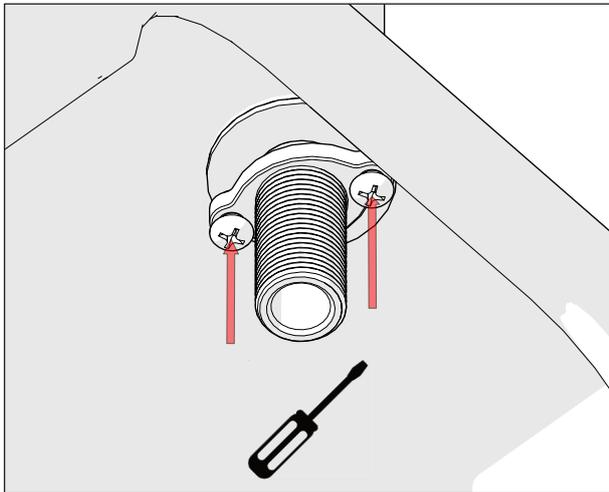• Ensure that all relevant building and plumbing codes are met when installing this product.
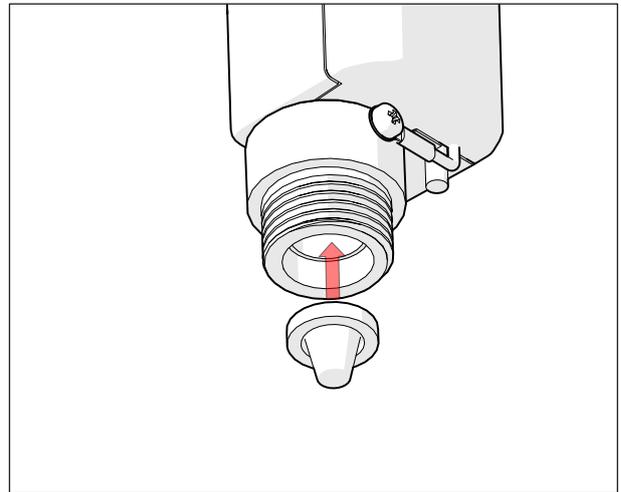
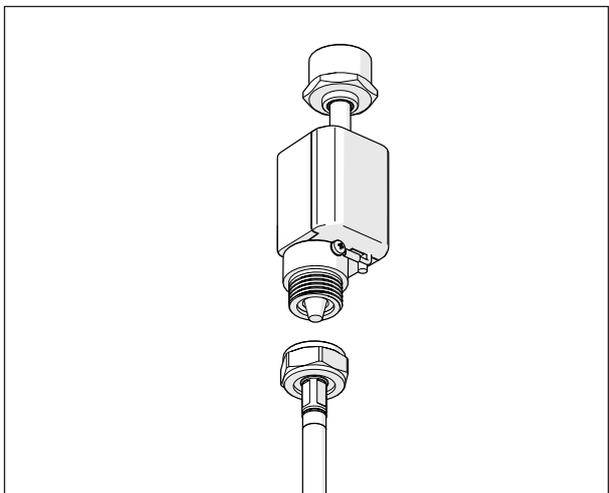## ROUGH-IN DIMENSIONS
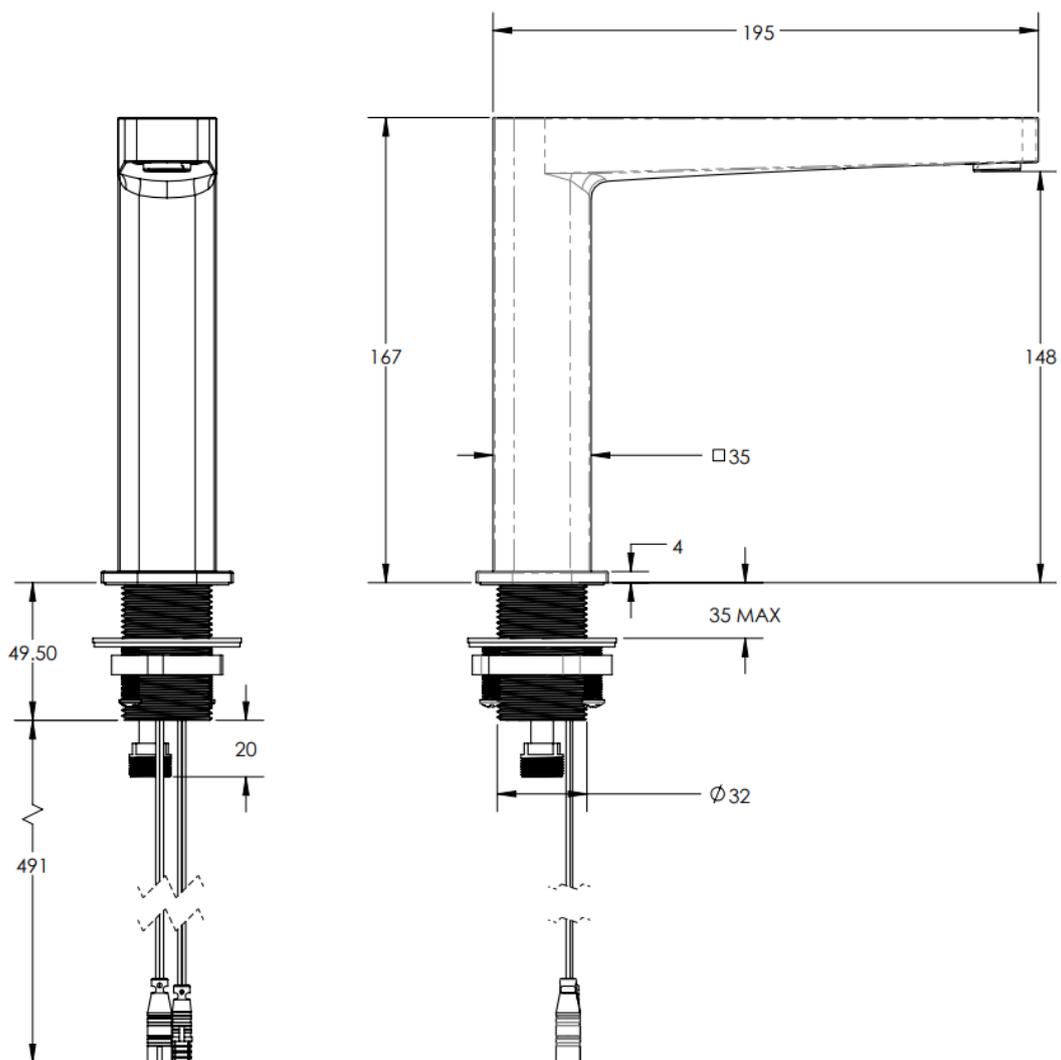
Installation overview
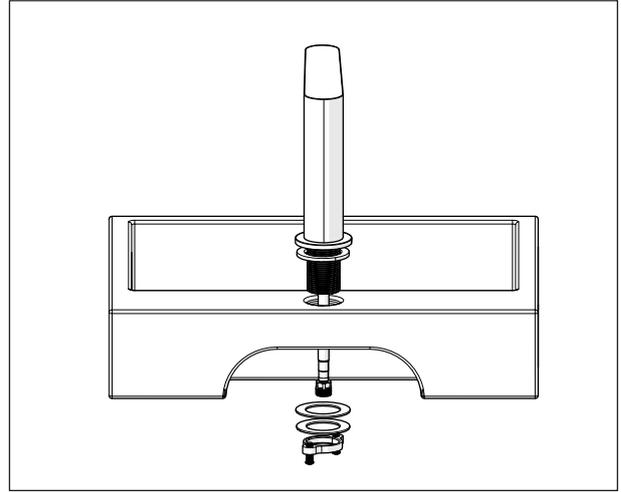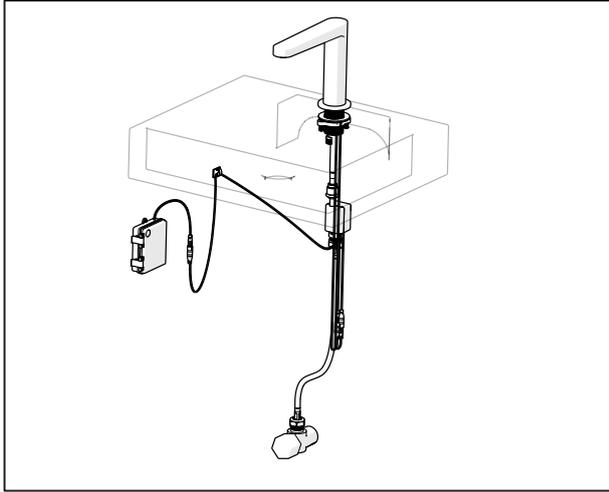
1- Install the faucet over the sink.

2- Secure the position.

3- Insert the filter inside the electronic valve..

4- Connect the hose and tighten it.
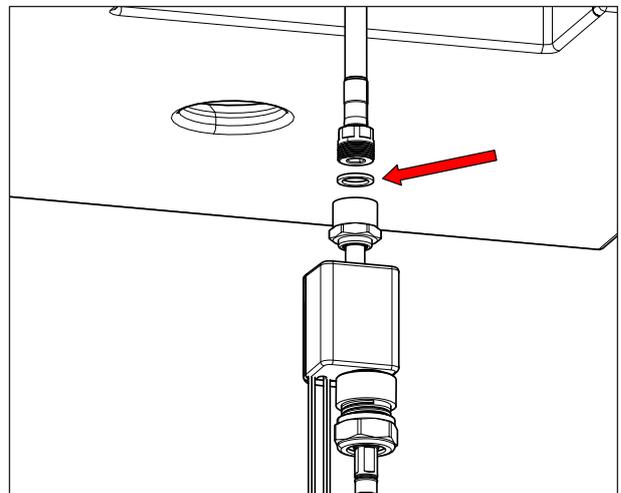
5- Insert flat seal, and screw the electronic valve on the faucet. Tighten with wrench.
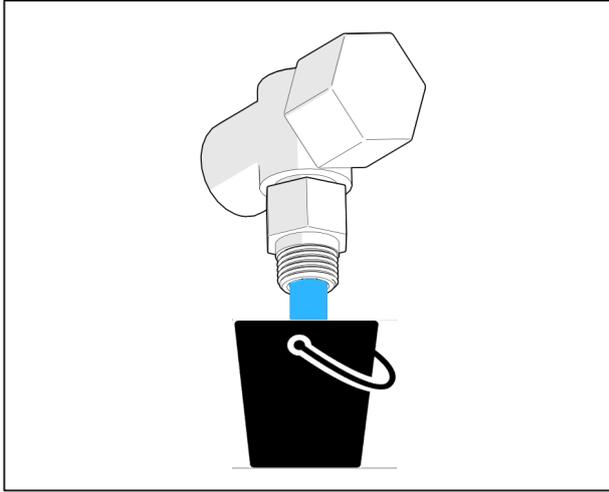
6- Purge and clean pipes before installation.
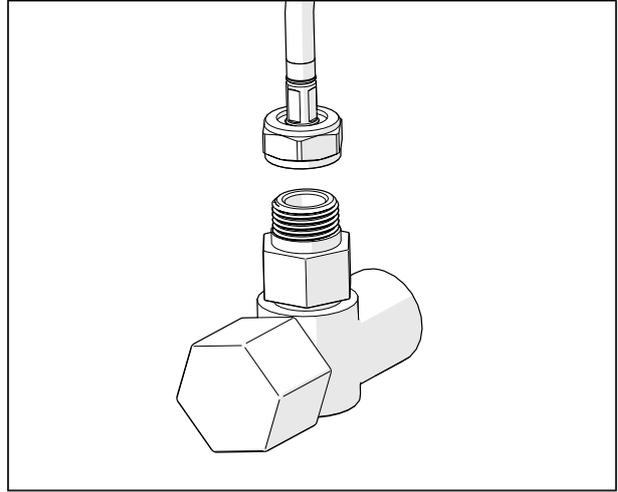
7- Fix the hose on the water main and tighten it
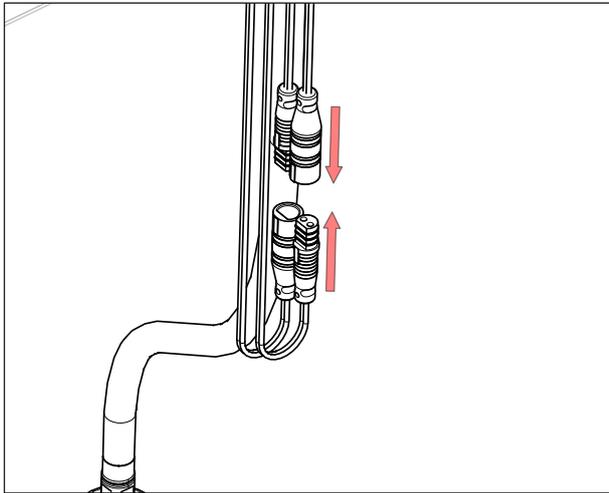
8- Connect 2 sensor wires to the micro valve.
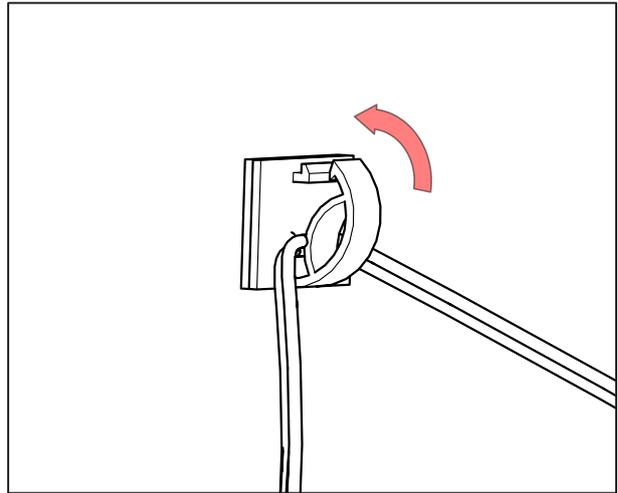
9- Use the pad to secure the electric cable on the wall.

4xAA, 4xLR6
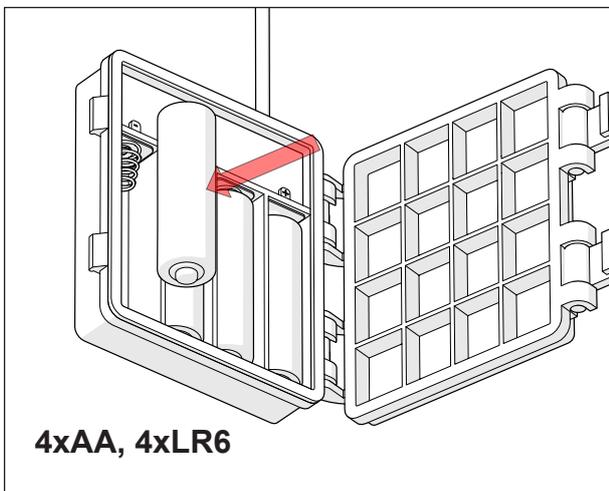
10- Install 4 AA batteries (not included) in the holder, pay attention to battery sides
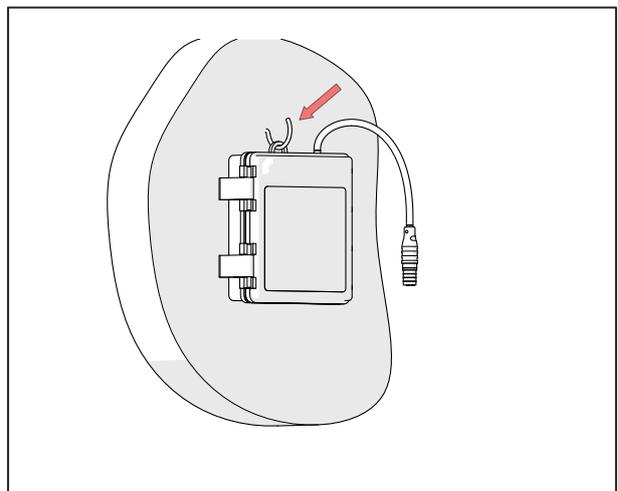
11- Fix the holder in position, keep in mind the max cable length (~ 800mm).
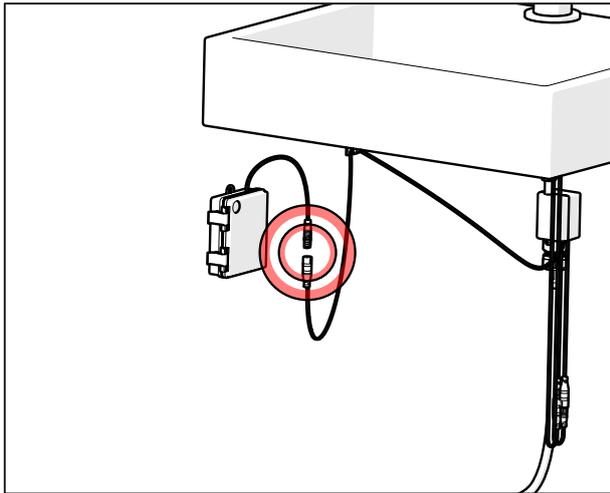
12- Wiring overview,
    DO NOT CONNECT THE BATTERY HOLDER YET.
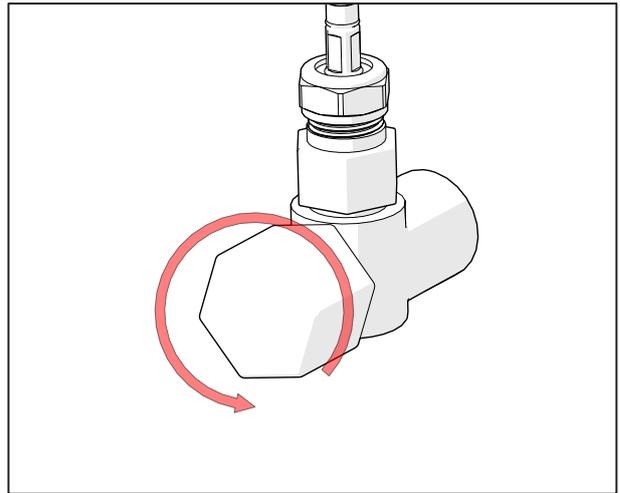
13- Open water main.
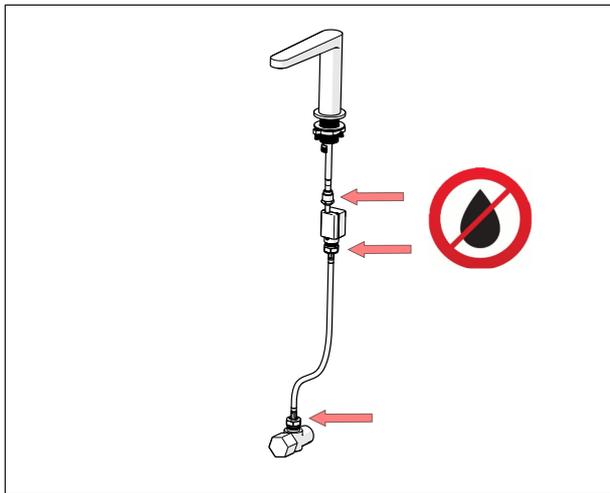
14- Inspect and check for water leaks.
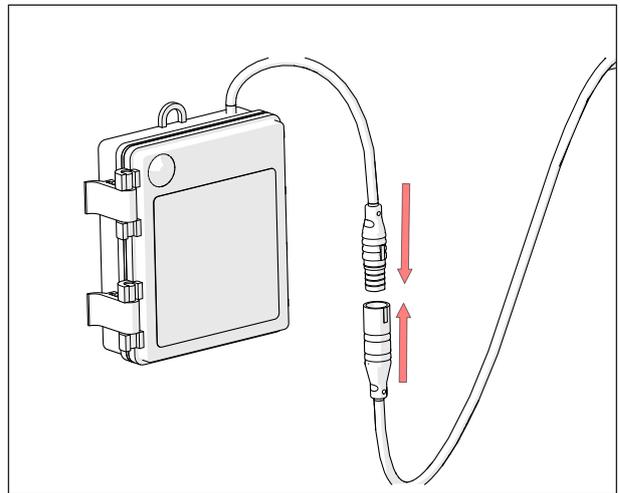
15- Connect the battery holder.
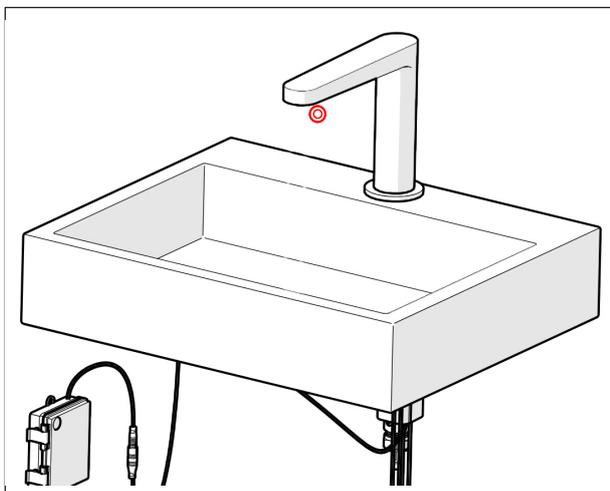
16- Wait 6 seconds for calibration, the red LED will
    Flash during this time.
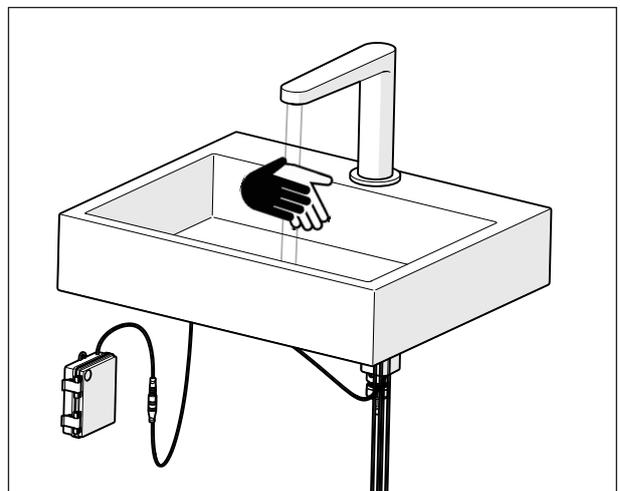
17- Enjoy your touch-less faucet!

Faucet specification's

Model: FH004
    Body: Brass LeadFree
    Finish: Chrome (No direct water contact to comply with lead free requirement)
    Aerator: Neoperl Cache TT 1.2GPM (4.5L/min)
    Fixation: OD 35mm, Brass nut with screw lock.

Micro valve: DF301_B00A
    Media: Potable water only (filter usage mandatory)
    Materials compatibility: ACS, WRASS, KTW/W270, FDA
    Type: Bi-stable
    Pulse: 20ms
    Valve power: DC6V, 25 ohms, 160mA
    Pressure: 7.3- 116 psi / 0.5 - 8 bar
    Flow: max 8 L/min @ 3bars

Battery holder: DR045
    Batteries: 4x AA alkaline
    Protection: IPx5

Sensor: GT089
   Technology: ToF sensor (anti-glare protection)
    Voltage: DC6V
    Function: Hand wash
    Distance: 15cm (5 to 16cm)
    Comfort time out: 2s
    Security time out: 30s
    Battery default: LED flash, Valve shut-OFF
    No power Security: Valve shut-OFF + system shut OFF

Hose:
    Connection: G1/2" - G1/2"
    Water drinking certified: WATERMARK
    Dimension: 500mm
    Material: EPDM body with Stainless steel braid.

Product standard:
    EU Directive 2014/30/EU "electromagnetic compatibility"
    EU Directive 2014/35/EU "Low Voltage"
    CE, RoHs, REACH, C/GT194
    Detection tolerances: +/- 10%   Timing tolerances: +/-10%

Power supply: PS109_0D3 6VDC 1.1A Australia / NZ
    CB : IEC61558-2-16:2009 + AMD1:2013
    IEC61558-1:2017
    EN61000-6-3:2007,
    EN61000-6-2:2019,
    EN 50563:2011+A1:2013
    GS License + LVD mark
    C-Tick : RCM; AS/NZ 4465.1:2005+A1:2009;
    AS/NZ 4465.2:2005+A1:2009; EESS, GEMS
    RoHS, REACH, SVHC 2018

Usage, setup and maintenance

OPERATION
- Automatic open and closing with hand presence.
- Anti-waste: a safety time guarantees shut-off of water flow after 30 seconds. Must remove hands to launch a new cycle.
- The LED located on the sensor in the spout will flash when the product is power ON for calibration, or if the batteries are low and need to be changed.

ELECTRICAL SUPPLY
- IP65 waterproof electronic housing.
- In order to preserve the batteries, room temperature must be ≥ 5°C.
- Do not use worn batteries.
- 4xAA Batteries are not supplied with this package.

MAINTENANCE & CLEANING
- Cleaning chrome or stainless steel: do not use abrasive, chlorine or any other acid based cleaning products.
- Clean with mild soapy water using a cloth or a sponge.
- The water filter and aerator can be cleaned under running water, ensure it stays clean to have a suitable water flow and avoid any valve damage.
- For troubleshooting, disconnect the battery holder for 5 seconds, reconnect and wait until the new calibration ends.
- For battery replacement, disconnect the battery holder, insert 4 new AA batteries, reconnect and wait until the new calibration is completed.

CALIBRATION
The calibration will start when the battery holder is connected to the sensor.
>   1- Unplug the battery holder connector if it is already plugged in, wait 5 seconds.
>   2- Plug in the battery holder connector to the electronic valve connector.
>   3- The LED will blink for few seconds during calibration. Do not place anything in front of the sensor during calibration time.

When calibration is successful:
   The LED will blink 2 times and 1 fast water flow will be launched.

When calibration is not successful:
- Check the installation, unplug battery holder.
- Check the water main is open.
- Check batteries are inserted the correct way and not worn.
- When everything is checked, re start a new calibration process.

LED INDICATIONS
The LED in front of the sensor will blink when a calibration is launched or according to the battery level.

- Battery default   1 blink every second, the system has stop the water, the LED will keep blinking until the batteries are replaced or empty.

- Empty batteries   The system will completely shut down.

SPARE PARTS
   All parts sold with this electronic valve are specific and ensure the good function of the system.
Do not replace with third party products, and contact your re-seller.
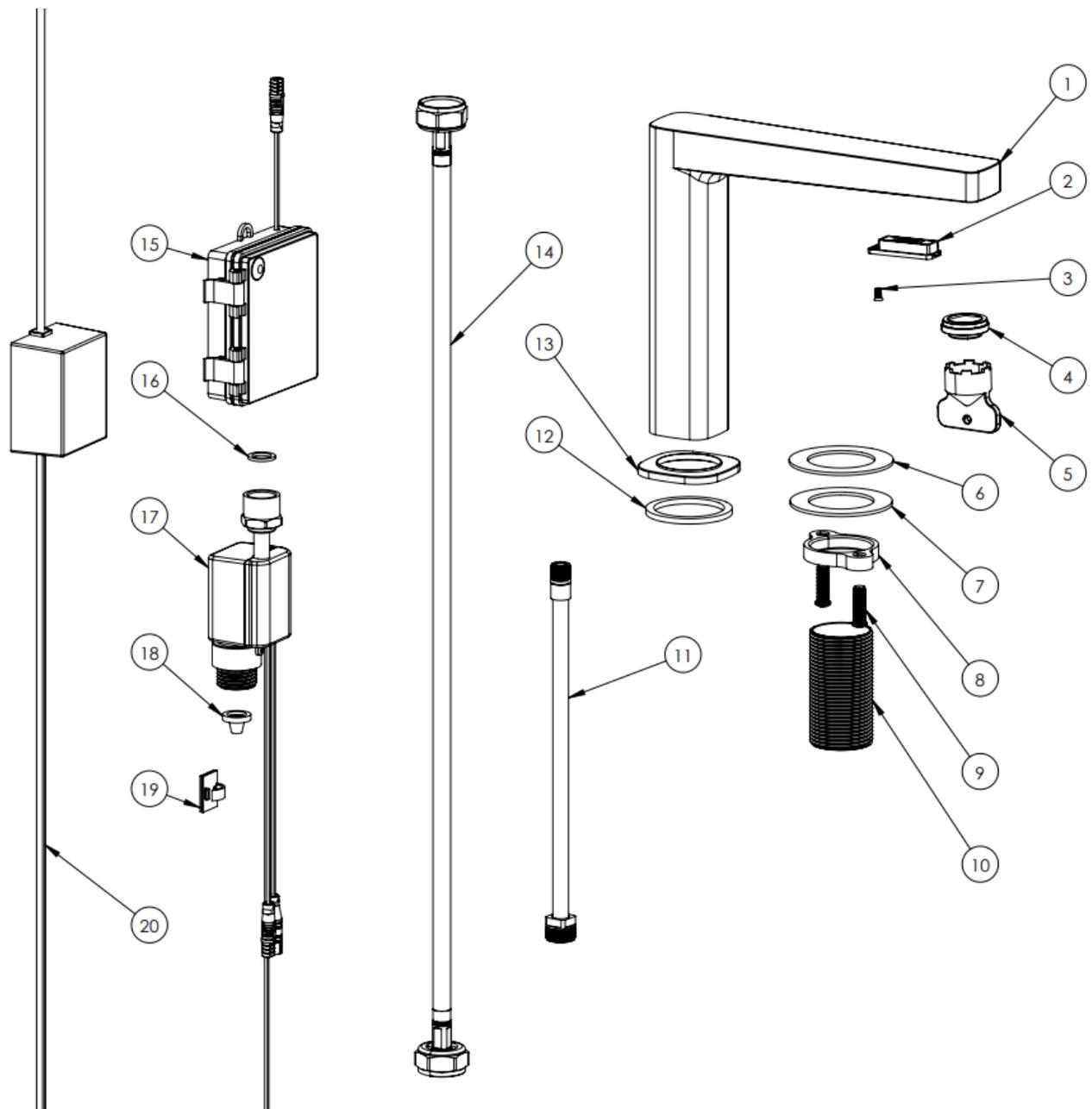
No	Reference	Designation	Material	Qty
1		Faucet round body	lead free	1
2	GT089	ToF sensor low energy	ASM	1
3	RW404A022	Screw M3x6 cross V head Black chrome plating	SS304	1
4		Neoperl_Aerator_SLIM M24x1 1.2gpm 40.8360.01000	ASM	1
5	RW803A003	NEOPERL M24x1 key	ABS	1
6	RW801A004	EPDM seal D53xD34.5x1.5	NBR	1
7	RW801A003	Spacer D50xD33x1.5	SS304	1
8	RW801A001	Nut faucet fixation M32x1.5	Brass H59	1
9	RW801A002	Screw M6x12 cross round head	SS304	2
10	RW801A005	Assembly screw M32x1.5 - 60mm	SS202	1
11	RW801A024	Inlet copper pipe M10X1	Brass CW617N Copper CW511L	1
12	RW801A023	EPDM seal D44xD36x2.8	NBR	1
13	RW801A025	Base Chrome faucet electroplate □35_Ø34 x 4mm	Brass H59	1
14	RW803A010	Hose SS G1/2 G1/2 500mm WATERMARK	ASM	1
15	DR045	Battery holder 4xAA	ASM	1
16		Flat seal water drinking D14xD10x1.3	EPDM	1
17	DF301_B00A	Microvalve + capacitor IR	ASM	1
18	RW401A012	Filter mesh 40 water drinking	EPDM+SS304	1
19	RW301C066	Wall mount pad+3M	ABS	1
20	PS109_0D3	Power supply 6V/1.1A	ASM	1