
Mounting and Installation Guide

SF0165CP Infra Red TMV3 Wall Mounted Spout 165mm Long

SF0234CP Infra Red TMV3 Wall Mounted Spout 234mm Long

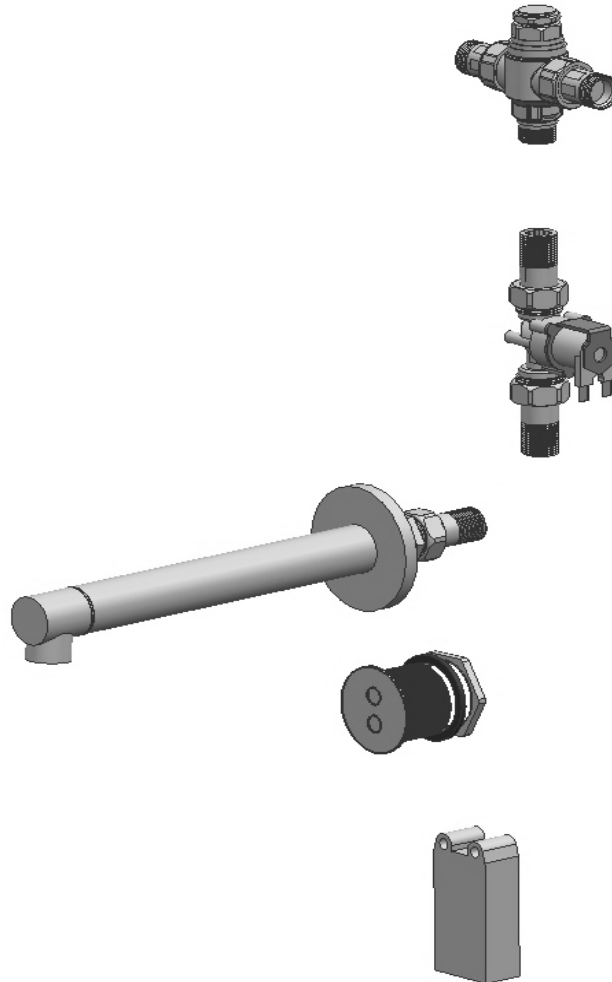


Table of Contents

1. Warranty	2
2. Abbreviations and Terminology Used within leaflet.	2
3. Important Notes.	3
4. Technical Specification for Sensor and Solenoid	3
5. Technical Specification for PSU	4
6. Flow Rate Data of Spout.	4
7. Scope of Delivery	5
8. Mounting on Panel	7
9. Assembly Instructions.	7
10. Fault Correction	9
11. Contact Details	9

1. Warranty

Liability is accepted according to General Terms and Conditions of Business and Supply.
Only use original replacement parts!

2. Abbreviations and Terminology Used within leaflet.

EMC	Electromagnetic compatibility
PWM	Pulse width modulation
SELV	Safety Extra Low Voltage
DN	Nominal diameter in mm
RCD	Residual Current Protective Device, Earth leakage circuit breaker
SW	Width A/F

EA No.	European article number
--------	-------------------------

Conversion	1 mm = 0.03937 inches 1 inch = 25.4 mm
------------	---

All length specifications in the graphics are in mm.

3. Important Notes

- Installation, commissioning and maintenance are to be performed only by a qualified technician according to the instructions provided and in accordance with legal requirements and acknowledged rules of technology.
- Legal requirements and the technical connection regulations of the local electricity supply companies must be complied with.
- Only appliances with protection class III (SELV) may be connected to the unit.
- All technical connection regulations specified by the local water and electricity supply utility companies must be complied with.
- Proper cooling must be assured. To ensure an unimpeded flow of cooling air, it is important to provide a minimum distance of 15 mm to neighbouring parts.
- All rights reserved to make technical alterations.
- Failure to observe can cause mortal danger or bodily injury.
- Failure to observe can cause material damage.
- Failure to observe can cause the product to malfunction.

4. Technical Specification for Sensor and Solenoid

Minimum flow pressure:	1.0 bar
Recommended flow pressure:	1–5 bar
Maximum operating pressure:	10 bar

Operating voltage:	24 V DC
Power consumption:	7 W
Type of protection:	Electronic IP 68, solenoid valve IP 40

5. Technical Specifications for PSU

Product group:	Primary switched-mode voltage regulator (single phase, primary switched power supply)
EMC:	61204-3
Electrical safety:	EN 60950/ VDE 0805 SELV
Type of protection:	IP 68
Protection class:	II
Test voltage:	4.2 kV DC
Dimensions W × H × D:	41 × 23 × 90 mm
Ambient temperature:	-10 to +50 °C
Cooling:	Natural convection
Storage temperature:	-25 to +60 °C
Input AC:	Rated voltage 230 V AC / 50 – 60 Hz Range 180 – 264 V
Rated current:	0.15 A at 230 V AC
Overvoltage protection:	Varistor in the input circuit
Connections:	1.5 m mains line
Output DC (SELV):	Rated voltage 24 V DC Range 22 – 28.8 V (preset to 25 V)
Rated current:	0.5 A at 25 V AC
Ripple:	< 150 mVpp (at 20 MHz)
Efficiency:	82 %
Current limitation:	1A
Connections:	5-pin system connector

6. Flow Rate Data of Spout

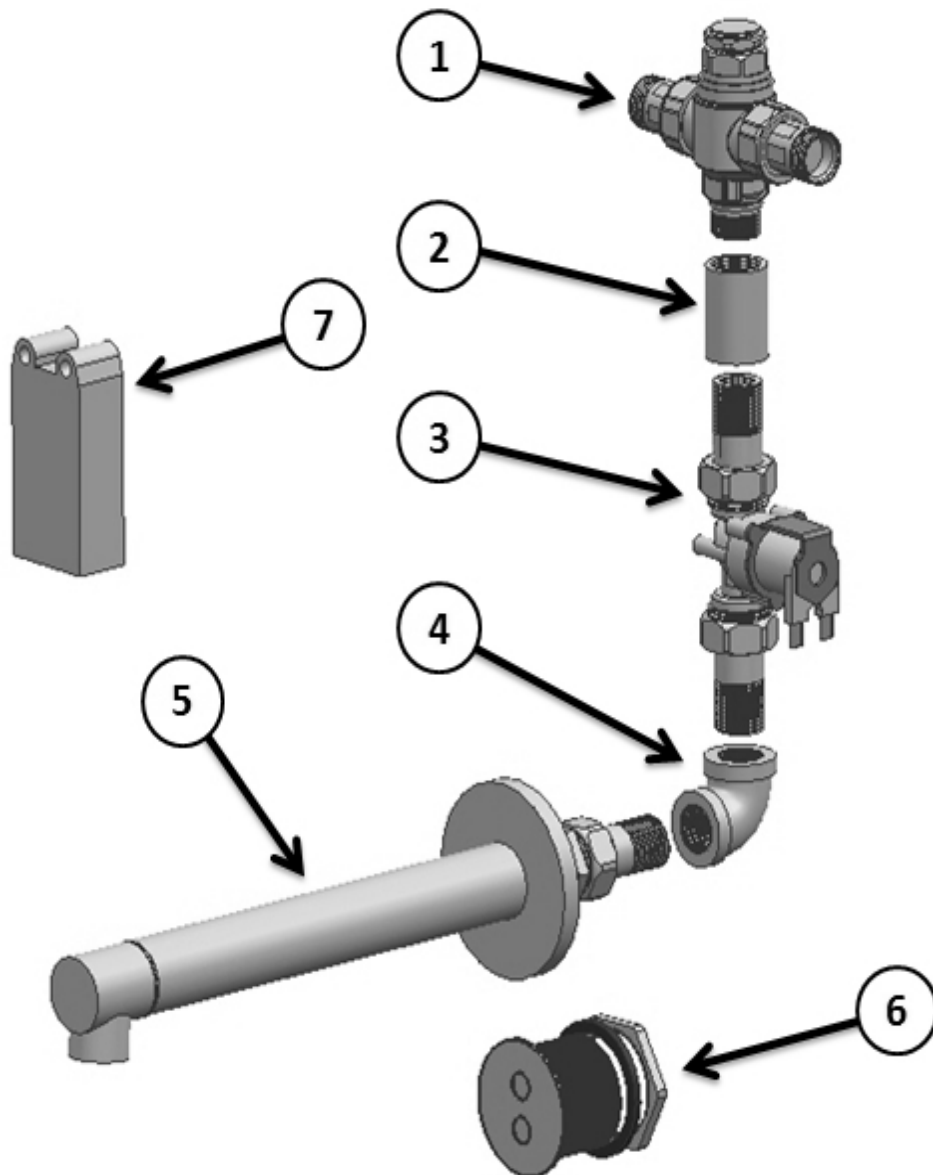
Cold Water: (14.5 ± 0.5) °C

Hot Water: (64.5 ± 0.5) °C

Flow Quantity Regulator: 6 l/min (±10%, 1-10 bar)

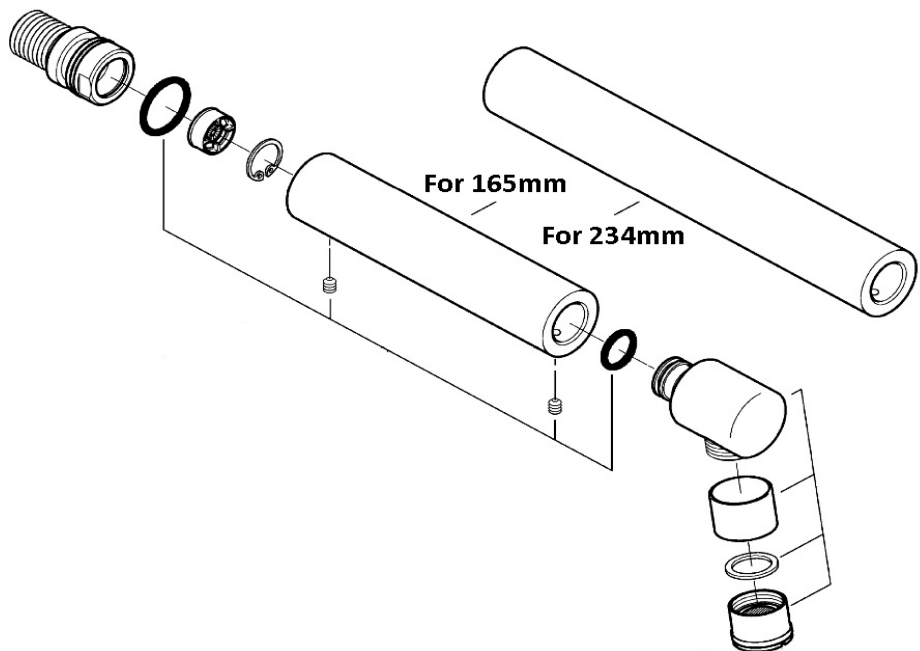
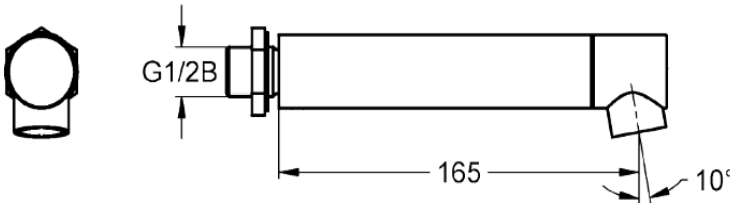
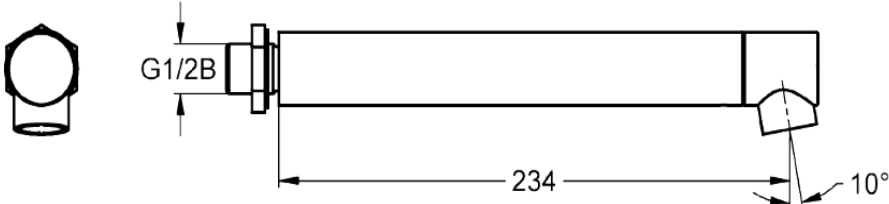
Pressure (cold/warm)	[bar]	0.1	0.2	0.4	0.6	0.8	1.0	1.5	2.0	3.0	4.0	5.0
Flow Rate	[l/min]	2.02	2.76	3.83	4.52	4.98	5.21	5.68	5.80	5.75	5.91	5.97
Water Temperature Outlet	[°C]	40.1	39.3	39.6	39.2	39.5	38.8	38.8	38.6	38.5	38.7	38.7

7. Scope of Delivery



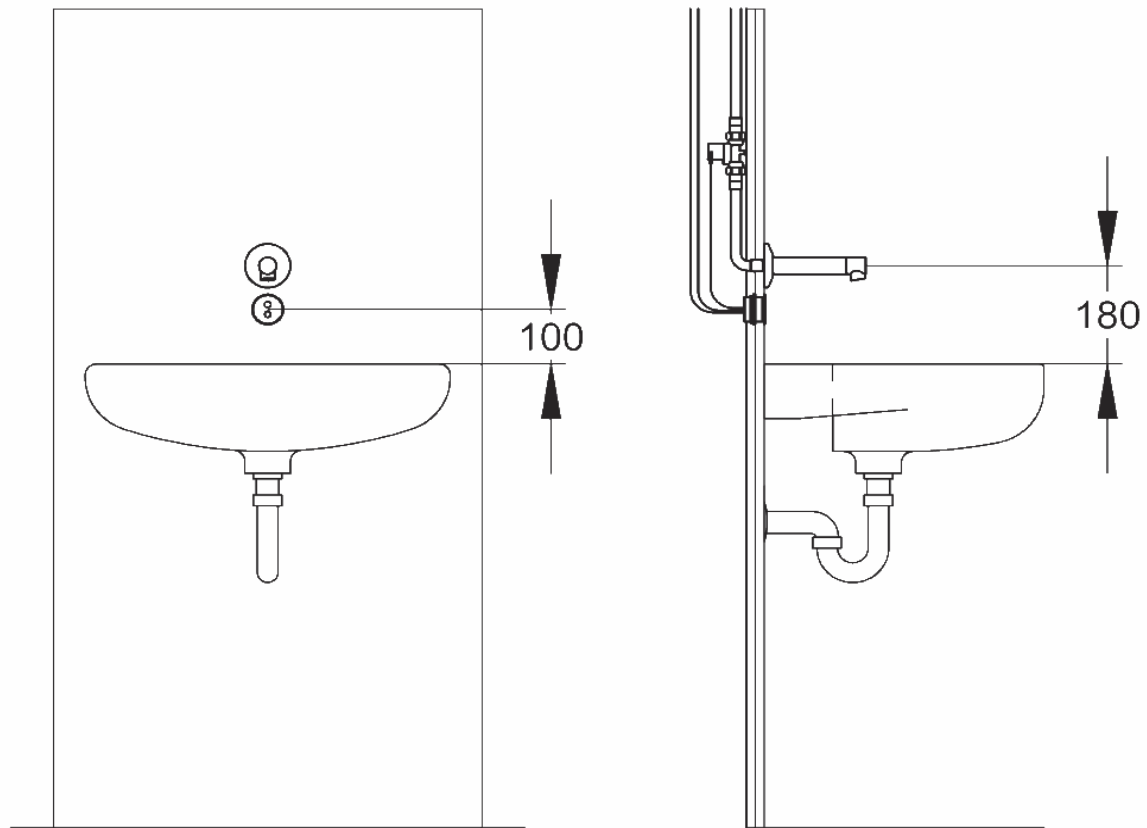
Item	Description
1	TMV Blending Valve (See seperate instruction sheet)
2	Straight Coupling (Not Supplied)
3	Solenoid Valve
4	90° Elbow (Not Supplied)
5	Spout (165mm or 234mm)
6	Infra Red Sensor Module
7	Power Supply (1.5m length Cable)

Spout Details



8. Mounting on Panel

- Mounting Distances for Spout and Sensor to the Basin.



- Make the cut-out for the sensor module (see details below).
- Diameter for Spout Hole to be 23mm

9. Assembly Instructions

Warning!

- Operate the product only with safety extra low voltage (SELV). Do not earth the components.
- The power supply must be set up outside of the wet area, ideally in a separate room.
- Secure the electric connection with an earth leakage circuit breaker (RCD).

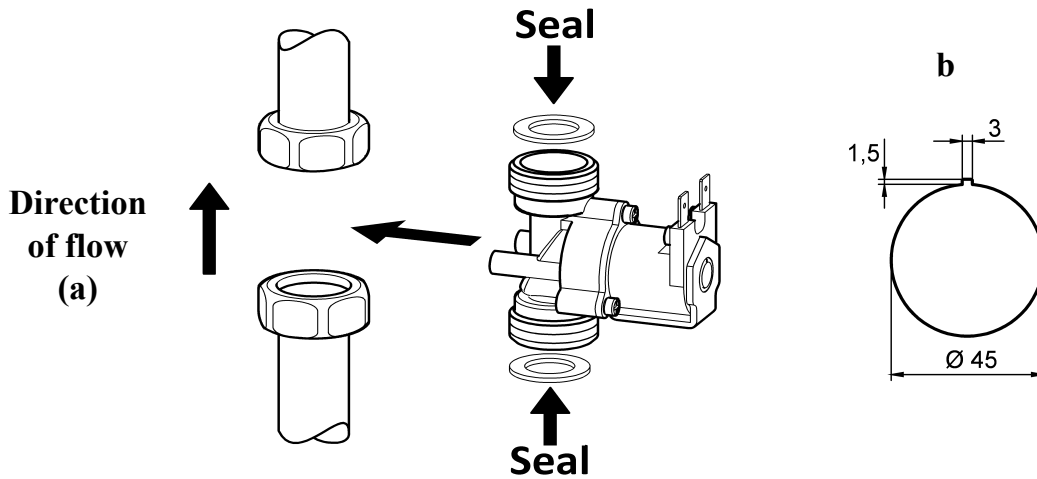
Failure to observe can mean risk of death or material damage, e. g. from electric shock or fire.

Important! Before installing, flush the pipes in compliance with DIN 1988.

Connect to the water supply.

Insert the solenoid valve with the seals.

Check the direction of flow (a) Make the cut-out for the sensor module (see drawing b).

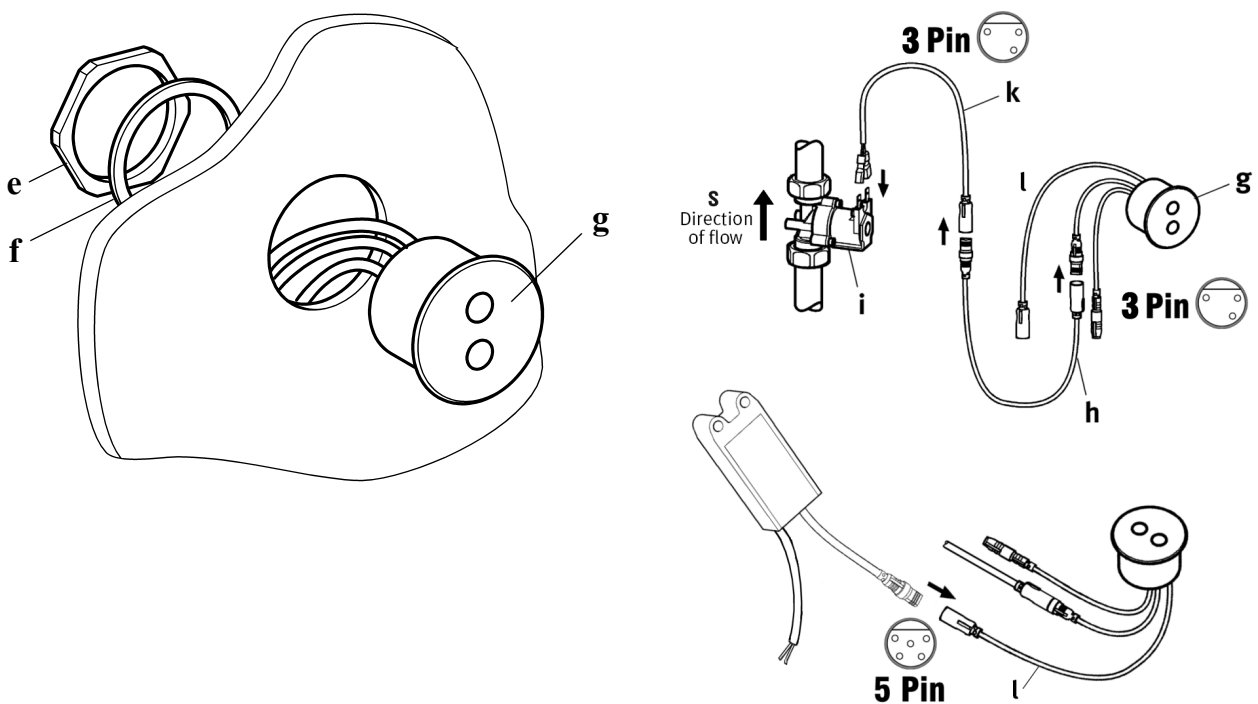


- The groove for the anti-twist feature must face upwards.

Panel thickness max. 30 mm

Guide the sensor module (g) through the cut-out provided.

- The groove for the anti-twist feature must face upwards. When the sensor is connected, the LED will flash at the bottom.
- Slide the disc (f) on to the sensor module.



- Use the nut (e) to fasten the sensor module.
- Use the adapter cable (k) and the extension (h) to connect the solenoid valve (i) and the sensor module (g).
- Connect the connecting line (l) to the power module (g).
- On initial power up the LED will flash for 15 secs and stop.
- After a further 20 secs the unit is operational. The spout will flow for 1 sec on activation and continuously while the hands are underneath the spout.

10. Fault correction

Fault	Cause	Remedy
No output voltage present	– Voltage supply interrupted	Restore
	– Compact system power supply defective	Replace
	– Output load too high (possibly short circuit)	Eliminate the source of the fault on the connected components
Water does not flow	– Voltage supply interrupted	Restore it
	– Water supply interrupted	Restore it
	– Sensor module faulty	Replace it
	– Solenoid valve faulty	Replace it
Water flows continuously	– Solenoid valve dirty	Clean it
	– Solenoid valve faulty	Replace it
Water flow too weak	– Supply pressure too low	Check it
	– Water inflow not fully opened	Open it

If you are unable to correct a fault or if the fault is not described in the fault correction section, please inform our service department!

11. Contact Details

Twyford
bathrooms

Lawton Road, Alsager, Stoke-on-Trent ST7 2DF, UK
T: +44(0) 1270 879777 F: +44(0) 1270 873864
www.twyfordbathrooms.com Part of the Sanitec Group

FI 24704

8/11