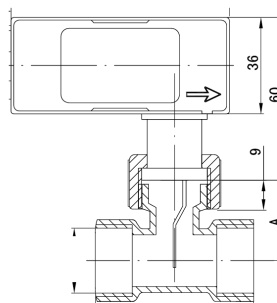


BAFFLE FLOW SWITCH IN A TEE, NO BELLOWS



- ACTION AND RESET POINT GIVEN FOR EVERY LISTED SIZE
- SPDT 5 A · 250 VAC WITHOUT THE INDICATOR, 24 VDC WITH IT
- 25 BAR · PRESSURE LOSS 0.01 BAR · -10 ... +80 °C · IP65

KEY DATA

Property	Value	Property	Value
Flow range	5.3 ... 22 L/min in water, by size, ranges A and B	Reset point	Given for every listed size — see the table
Output	SPDT micro switch, one or two switch points	Switching capacity	5 A · up to 250 Vac without the indicator
Pressure range	25 bar	Pressure loss	0.01 bar at maximum flow
Operating temperature	-10 ... +80 °C	Process connection	Tee with G1/2 to G2 thread, inside or outside
Protection grade	IP65	Materials	Wetted body nickel-plated brass · baffle stainless

A spring-loaded baffle hangs into a tee; the flow deflects it and a micro switch operates above. There is no bellows, and the magnet is out of the flowing water.



MEASUREMENT

Measuring principle	Mechanical — a spring-loaded baffle in the flow, a micro switch above it, and no bellows between them
Flow range	5.3 ... 7.2 L/min at DN15 up to 16 ... 22 L/min at DN25, with two ranges A and B in each size
Reset point	Given in brackets against every flow figure; the figure outside the brackets is the action point
Setting	By a knob on the housing
Magnet	Not in the flowing water; the switch can be used in sewage systems
Media	Liquid and gaseous. Industrial automation, machinery, air compression, refrigeration and air conditioning. Other media to be stated with the order

MATERIALS AND PROCESS

Wetted body	Nickel-plated brass · baffle stainless steel · seal NBR
Electrical housing	ABS
Process connection	A tee with G1/2, G3/4, G1, G1¼, G1½ or G2 thread, with female or male ends
Pressure range	25 bar · higher pressure can be customised
Pressure loss	0.01 bar at maximum flow
Operating temperature	-10 ... +80 °C
Protection grade	IP65
Bellows	None

ELECTRICAL PROPERTIES

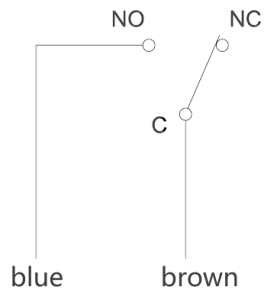
Output	SPDT micro switch — one switch point or two, chosen on ordering
Switching capacity	5 A maximum current
Voltage without indicator	Up to 250 Vac
Voltage with indicator	24 Vdc ± 10 %
Connection	DIN 43650A connector, or a common connector with 0.8 m of cable
Wire colours	Blue and brown on the cable version; terminals 1, 2 and 3 on the DIN connector
Default	Normally open, unless the order says otherwise

SETTING AND MOUNTING

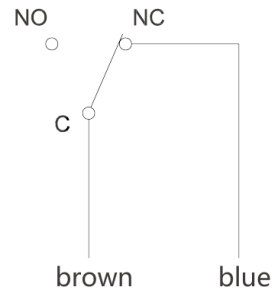
Status indicator	Optional. With it the supply is 24 Vdc ± 10 %
Setting	By a knob on the housing
Ordering	State the medium with the order if it is not water, gas or oil



WIRING

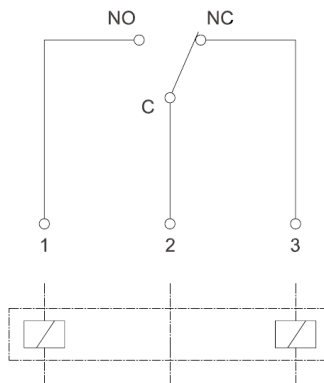


Normally open wiring diagram
A



Normally closed wiring diagram
B

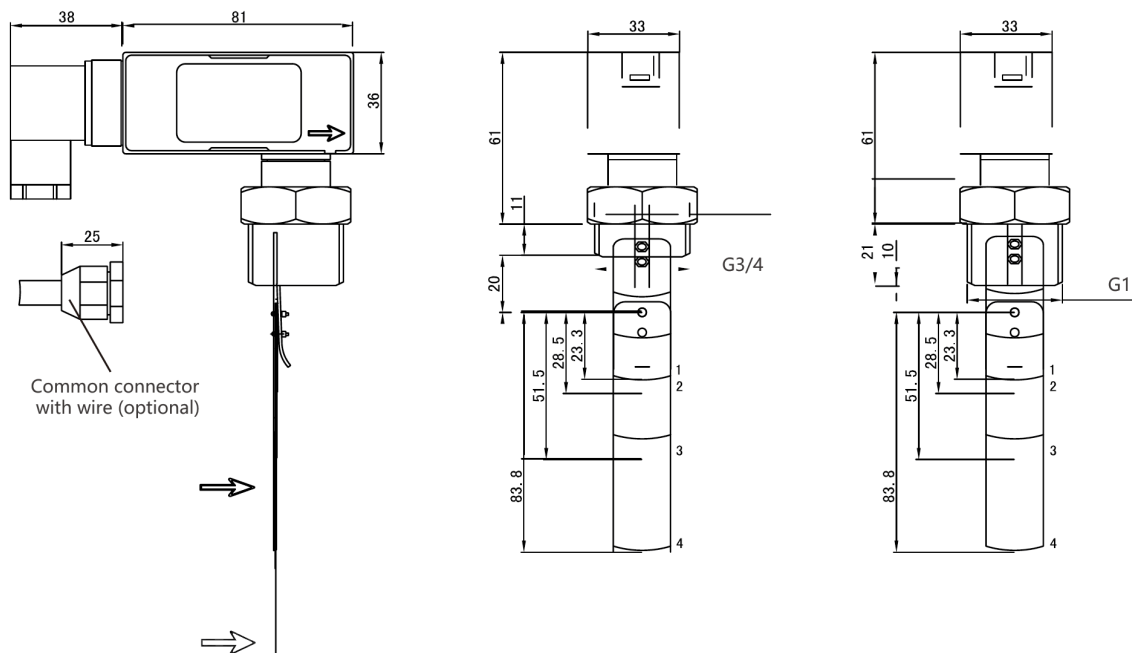
The cable version, wired normally open on the left and normally closed on the right: blue and brown, with the common contact between them.



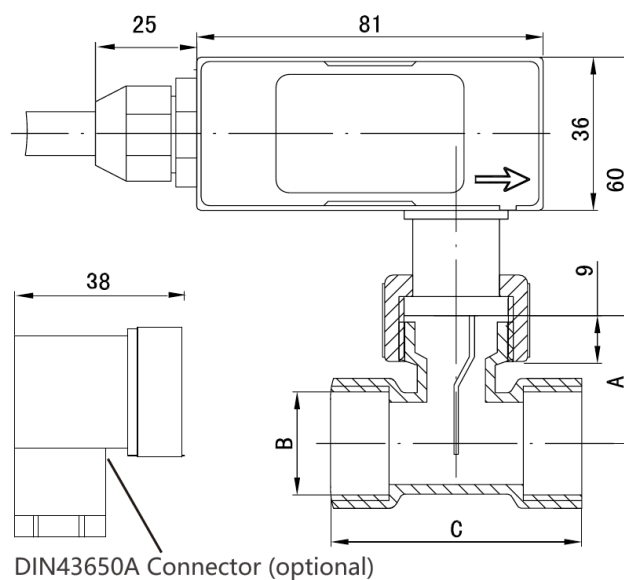
The DIN 43650A version: terminals 1, 2 and 3 with the changeover between them.



DIMENSIONS (mm)



The switch with the DIN 43650A connector and with the cable connector, and the paddle drawn for the G3/4 and the G1 thread.



FC370-A Tee with internal thread

The switch screwed into its tee. A is the height from the pipe axis to the sealing face, B the bore of the run and C the length across the tee; the figures are in the table overleaf.



OVERALL DIMENSIONS (mm)

Feature	mm	Note
Housing length	81	The rectangular electrical housing
Housing height	36	60 mm over the process connection
Housing width	33	Seen from the end
DIN connector	38	Projection of the DIN 43650A connector
Cable connector	25	Projection of the common connector
Head over the thread	61	To the top of the housing
Baffle length	83.8	From the sealing face to the tip
Baffle steps	51.5 · 28.5 · 23.3	The four marked sections of the paddle
Thread	G3/4 · G1	The two threads drawn



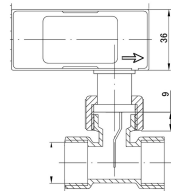
COMPLIANCE AND CERTIFICATION

Measuring principle	Mechanical, spring-loaded baffle and micro switch, without a bellows
Reset point	Given in brackets against each flow figure
Protection grade	IP65
Temperature	Operating -10 ... +80 °C
Pressure rating	25 bar
Wetted materials	Nickel-plated brass body, stainless baffle, NBR seal
Contact rating	5 A

RANGES AND ORDER CODE

Ranges

- The tee is part of the product: it carries its own part number and its own table of dimensions A, B and C.



Pressure
25 bar

Protection
IP65



The figure in brackets is the reset point — the flow at which the switch falls back — and the one outside it the point at which it operates. Both are measured in water. Tee A is the height from the pipe axis to the sealing face, tee C the length across the tee.

MODELS, RANGES AND DIMENSIONS

DN	Thread	Range A L/min	Range B L/min	Max flow	Tee A	Tee C
15	G1/2	5.3 (4.5) ... 7.2 (6.1)	6.1 (5.2) ... 8.2 (7.0)	20	28	50
20	G3/4	9.4 (8.0) ... 12.8 (10.8)	10.5 (9.0) ... 14.5 (12.0)	40	28	58
25	G1	14.7 (12.5) ... 19.9 (16.9)	16 (14) ... 22 (19)	60	34	58
32	G1 1/4	—	—	—	34	72

Example: QSKR-020-T-K-D-L08.

ORDER CODE

Field	Code	Meaning
1 Series	QSKR	QSKR baffle flow switch in a tee
2 Size	015 · 020 · 025	G1/2 · G3/4 · G1 pipe thread
	032	G1¼ pipe thread
	040 · 050	G1½ · G2 pipe thread, only stainless steel
3 Material	T	Nickel-plated brass
4 Tee	K · M	Female thread at both ends · male thread at both ends
5 Connection	D	DIN 43650A connector
	—	Common connector with cable, normally open unless stated
6 Cable length	L08	0.8 m

