



TI

Technical Information



Water Flow Switch with ON/OFF output

The Series is widely used as water flow controls in water / air cooled chillers

Monitoring of water pump, mechanical equipment, compressor and refrigeration equipment

The Switch covers all common used pipe sizes in the HVAC markets

The switch outputs are ON/OFF



Sensor Specification	Sensor Specification	
	Measured	Flow
Sensor Specification	Sensor Characteristics	Passive
	Sensor Output (s)	SPDT micro-switch (NO/ NC)
Sensor Specification	Pressure Lost	0.01bar at max. flow
	Max. Over Pressure	Max. 25bar
Sensor Specification	Medium Temperature Range	-30°C...+110°C
	Measuring Range (s)	Optional paddles, see Product Range, Page 1
Technical Information	Electrical Information	Terminal Clamp
		Screw terminal, max. 2.5mm ²
Technical Information	Mechanical Information	Relay Rating
		AC 250V, max.3A
Technical Information	Mechanical Information	Cable Length
		1m
Technical Information	Mechanical Information	Cable Diameter
		2x0.75mm ² , 105°C resistance burning cable
Technical Information	Mechanical Information	Cable Entry
		M16, Ø6...Ø8mm cables
Technical Information	Mechanical Information	Connection Type
		G3/4"or G1", male thread
Technical Information	User Interface	n.a.
	Color and Materials	Housing Cover
Color and Materials		Housing Bottom
	Color and Materials	Paddle
Color and Materials		Cable Gland
	Environmental Conditions	Operation Temperature
Environmental Conditions		Operation Humidity
	Environmental Conditions	Transport Temperature
Environmental Conditions		Transport Humidity
	Environmental Conditions	Storage Temperature
Environmental Conditions		Storage Humidity
	Norms and Directives	IP- Rating
Norms and Directives		Safety Class
	Norms and Directives	Product Standard 1
Norms and Directives		Product Standard 2
	Norms and Directives	CE Conformities to
Norms and Directives		CE Electromagnetic Compatibility Emitted Interference
	Norms and Directives	CE Electromagnetic Compatibility Interference Resistance
Norms and Directives		RoHS Compatibility
	Norms and Directives	Operation Climatic Condition
Norms and Directives		Operation Mechanical Condition
	Norms and Directives	Transport to Climatic Condition
Norms and Directives		Transport Mechanical Condition
	Norms and Directives	Storage Climatic Condition
Norms and Directives		Storage Mechanical Condition

Product Range	Order Code	Output Rating	Thread Size	Pipe Size	Max. flow (m3/h)	Water Flow	Water Flow	Water Flow	Water Flow	Repeatability	Medium Temperature Range
						Paddle 1	Paddle 1/2	Paddle 1/2/3	Paddle 1/2/3/4		
						(m3/h)	(m3/h)	(m3/h)	(m3/h)		
EXT-TN-1100009	SPDT micro-switch, 230V / 3A	3/4"	DN32	6	1.7-1.8	—	—	—	better than 1%	-20°C...+93°C	
			DN40	9	1.7-2.4	—	—				
			DN50	15	4.5-4.9	1.2-1.4	—	—			
			DN65	24	9.5-11.2	3.2-3.6	—	—			
EXT-TN-1100010	SPDT micro-switch, 230V / 3A	1"	DN80	36	13.5-14.8	5.9-7.4	1.4-2.7	—			
			DN100	60	25.8-30.2	8.3-8.8	3.3-3.9	2.3-3.8			
			DN125	85	35.5-41.6	11.7-13.1	5.1-5.8	3.1-3.8			
			DN150	110	49.6-54.7	14.8-16.9	6.2-6.6	4.0-4.5			

Installation Notes

Observe the following general regulation for engineering and implementation:



All relevant national and heavy power regulation

Other country specific regulations

Country-specific regulations

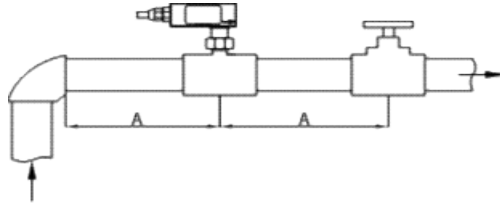
Local electrical supply authority regulation

Schematics, cable listings, dispositions, specification and arrangements from the customer or engineering office in charge

Third party specifications, e.g. general contractors or constructors

Advices

Mounting Advices



Disposal Notes

The device is considered an electronic device for disposal in terms of the EUROPEAN DIRECTIVE 2012/19/EU.



The device may not be disposed as domestic garbage.

The device must be disposed through channels provided for this purpose.

It is mandatory to complying with local currently applying laws and regulations.

Connections

T1	NC / Low Flow
T2	NO / Hight Flow
T3	Common



Dimensional Drawing

