

 TI4250en	Technical Information	
PPI2- Series (F)	Water Flow Switch with ON/OFF output	

The PPI2-Series (F) is 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



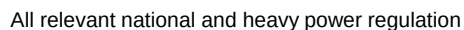
Use	Compatible to all common HVAC DDC and Analog Controls systems, with/without Building Automation System
	Water flow controls in HVAC water systems
	Used in all common HVAC applications
	Used in Commercial and Industrial Buildings
Features	Voltage free contact output
	Low pressure loss, good repeatability, dirt resistant
	Separation of electrical and hydraulic components
	Corrosion resistant
	Professional and practical product design, withstands rough environmental conditions
	Easy to use, install and maintain

Product Range		Order Code	Output Rating	Thread Size	Pipe Size	Max. flow	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)	(m3/h)		
PPI2.AA PPI2.BA		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	—	—			
			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			
				DN200	203	88.8-97.3	26.3-30.0	11.0-11.7	7.1-8.0			
				DN250	310	137.7-151.9	41.1-46.9	17.2-18.3	11.1-12.5			

All Information and technical data are subject to alteration

Sensor Specification	Sensor Specification	Measured	Flow
		Sensor Characteristics	Passive
		Sensor Output (s)	SPDT micro-switch (NO/ NC)
		Pressure Lost	0.01bar at max. flow
		Max. Over Pressure	Max. 25bar
		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
		Relay Rating	AC 250V, max.3A
	Mechanical Information	Cable Length	1m
		Cable Diameter	2×0.75mm ² , 105°C resistance burning cable
		Cable Entry	M16, Ø6...Ø8mm cables
		Connection Type	G3/4"or G1", male thread
	User Interface	n.a.	
	Color and Materials	Housing Cover	Black ABS, RAL 9017 (Traffic BI
		Housing Bottom	Nickel plated brass
		Paddle	Brass
		Cable Gland	Black PP, RAL 9017 (Traffic Black)
	Environmental Condition	Operation Temperature	-20°C...+85°C
		Operation Humidity	100% r.h., with condensation
		Transport Temperature	-10°C...+70°C
		Transport Humidity	< 90% r.h.
		Storage Temperature	-10°C...+70°C
		Storage Humidity	< 85% r.h., no condensation
	Norms and Directives	IP- Rating	IP65 to IEC6052
		Safety Class	III to EN 60 730
		Product Standard 1	Automatic Electric. Controls for household and similar use
		Product Standard 2	2009/EN 60 730-1
		CE Conformities to	2004/108/EG Electromagnetic Compatibility EMV
		CE Electromagnetic Compatibility Emitted Interference	2000/EN60730-1 Emitted Interference
		CE Electromagnetic Compatibility Interference Resistance	2000/EN60730-1 Interference Resistance
		RoHS Compatibility	RoHS 3 EU 2015/863
		Operation Climatic Condition	IEC 60 721-3-3
		Operation Mechanical Condition	IEC 60 721-3-2 to class2M2
		Transport to Climatic Condition	IEC 60 721-3-2
		Transport Mechanical Condition	IEC 60 721-3-2 to class2M2
		Storage Climatic Condition	IEC 60 721-3-1
		Storage Mechanical Condition	IEC 60 721-3-1 to class2M2
Miscellaneous	Accessories	Mounting Kit, Included in delivery	One set of paddles
	Shipping & Handling	Minimum Order	1 box with 1 piece
		Package Material	Rigid Cardboards Packaging
	Order Notes	Order Code	See Product Range, Page 1, e.g. PPI2.AA

Observe the following general regulation for engineering and implementation:



Other country specific regulations

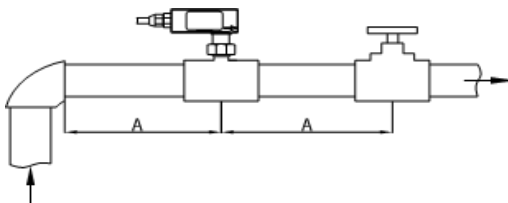
Country-specific regulations

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

Mounting Advices



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



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

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

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

