

 DS4250en	Data Sheet	
PPI2-Series (F)	Water Flow Paddle 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

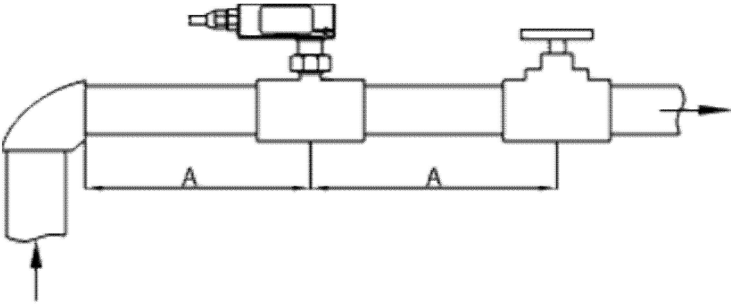
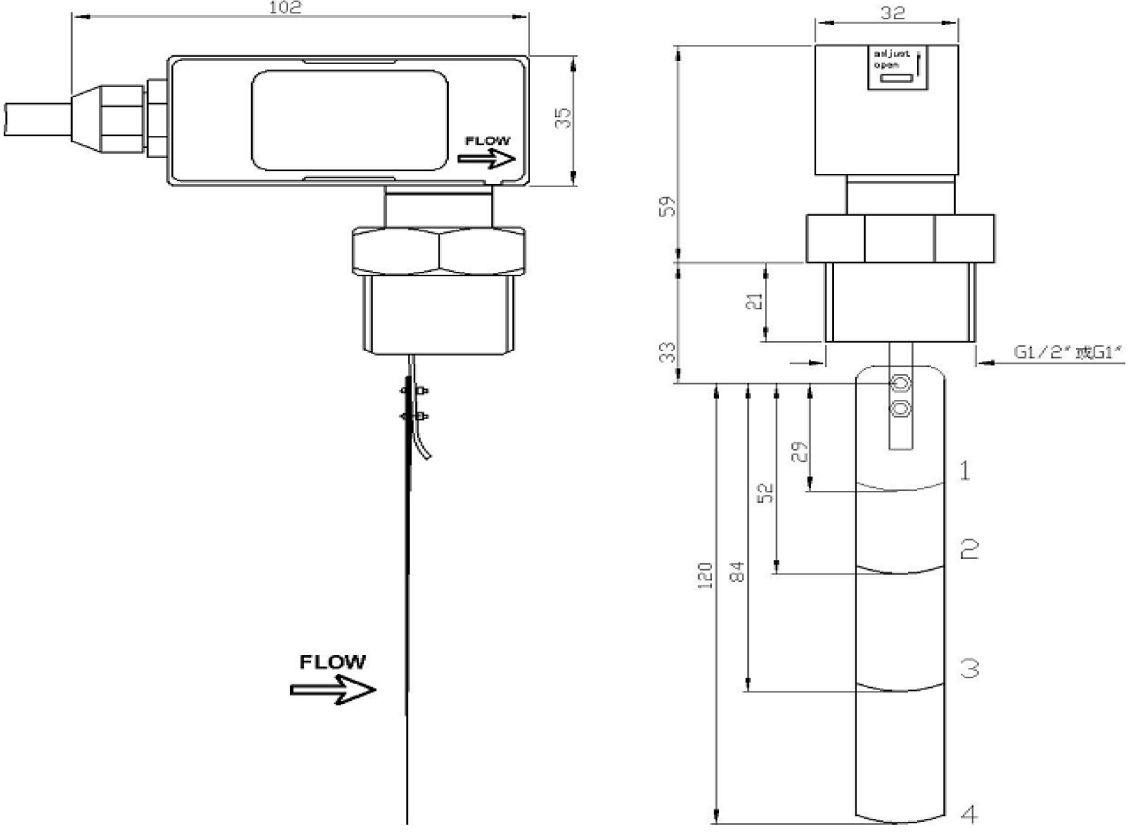


Use	Compatible to all common HVAC DDC and Analog Controls systems, with/without BA Systems Used in all common HVAC applications Used in Commercial and Industrial Buildings
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Features	Voltage free contact output Low pressure loss, good repeatability, 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
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Order Code	Output Rating	Thread Size	Pipe Size	Max. Flow m³/h	Water Flow Paddle 1 m³/h	Water Flow Paddle 1/2 m³/h	Water Flow Paddle 1/2/3 m³/h	Water Flow Paddle 1/2/3/4 m³/h	Repeatability	Temperature Range
PPI2G.AA	SPDT micro-switch, 230 V / 3 A	3/4"	DN32	6	1.7 to 1.8	N/A	N/A	N/A	better than 1 %	-20 °C to +93 °C
			DN40	9	1.7 to 2.4	N/A	N/A	N/A		
			DN50	15	4.5 to 4.9	1.2 to 1.4	N/A	N/A		
			DN65	24	9.5 to 11.2	3.2 to 3.6	N/A	N/A		
PPI2G.BA		1"	DN80	36	13.5 to 14.8	5.9 to 7.4	1.4 to 2.7	N/A		
			DN100	60	25.8 to 30.2	8.3 to 8.8	3.3 to 3.9	2.3 to 3.8		
			DN125	85	35.5 to 41.6	11.7 to 13.1	5.1 to 5.8	3.1 to 3.8		
			DN150	110	49.6 to 54.7	14.8 to 16.9	6.2 to 6.6	4.0 to 4.5		
			DN200	203	88.8 to 97.3	26.3 to 30.0	11.0 to 11.7	7.1 to 8.0		
			DN250	310	137.7 to 151.9	41.1 to 46.9	17.2 to 18.3	11.1 to 12.5		

Sensor Specification	Sensor Specification	Measured	Flow
		Sensor Characteristics	Passive
		Sensor Output (s)	SPDT micro-switch (NO / NC)
		Pressure Lost	0.01 bar at max. flow
		Max. Over Pressure	Max. 25 bar
		Medium Temperature Range	-20 °C to +93 °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 250 V, max. 3 A
	Mechanical Information	Cable Length	1 m
		Cable Diameter	2 × 0.75 mm ² , 105 °C resistance burning cable
		Cable Entry	M16, Ø6 mm to Ø8 mm cables
		Connection Type	G3/4" or G1", male thread
	User Interface	N/A	
	Materials and Colours	Housing Cover	ABS, black RAL 9017 (Traffic Black)
		Housing Bottom	Nickel plated brass
		Paddle	Brass
		Cable Gland	PP, black RAL 9017 (Traffic Black)
		Flammability Standard	UL 94 class HB; IEC 60707; ISO 9770
	Environmental Conditions	Operation Temperature	-20 °C to +85 °C
		Operation Humidity	100 % RH, with condensation
		Transport Temperature	-10 °C to +70 °C
		Transport Humidity	<90 % RH
		Storage Temperature	-10 °C to +70 °C
		Storage Humidity	<85 % RH, no condensation
	Norms and Directives	IP-Rating	IP65 to IEC60529
		Product Safety	Safety class III, in accord. with EN IEC 60730-1
		Product Standard	Automatic electrical controls for household and similar use in accordance with EN IEC 60730-1:2022
		CE marking in accordance with Directive	2014/30/EU Electromagnetic Compatibility (EMC)
		EMC Emissions, in accordance with	EN IEC 60730-1:2022
		EMC Immunity, in accordance with	EN IEC 60730-1:2022
		RoHS Compliance, in accordance with	Directive 2011/65/EU, as amended by (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
		Packaging	Rigid cardboards packaging
	Order Notes	Order Code	See product range, page 1, e.g. PPI2G.AA

	Installation Notes  Observe the following general regulation for engineering and installation: All relevant national and local electrical installation codes Other country-specific regulations Comply with all local safety regulations, schematics, cable listings, dispositions, specifications, and arrangements from the engineering office in charge Third-party specifications, e.g., general contractors' or constructors' notes						
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 comply with local currently applying laws and regulations						
Dimensional Drawing / Mounting							
Connections & Settings	<table border="1"> <tr> <td>T1</td> <td>NC / Low Flow</td> </tr> <tr> <td>T2</td> <td>NO / High Flow</td> </tr> <tr> <td>T3</td> <td>Common</td> </tr> </table> 	T1	NC / Low Flow	T2	NO / High Flow	T3	Common
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