



Vortex Flow Monitor

Eggs DELTA Pulse



- Made of PPS resin: compact, lightweight, and economical.
- Ideal for consumption management of energy-fluids or coolant, as well as end-of-process flow monitoring via installation to various equipment.
- Capable of measuring wide range of liquid and gas.
- Resistant to dust and mist. Capable of wet-gas measurement.
- Maintenance free due to absence of moving parts.
- ATEX, TIIS compliant.

■ GENERAL SPECIFICATIONS

Item	Description					
Nominal size	4mm	8mm	15mm	25mm		
Flow range (L/min)	Water 0.4 to 4	1.1 to 15	2.8 to 45	8.3 to 133		
	Air 7.2 to 17	18 to 90	55 to 283	167 to 850		
Process connection	R male (resin), NPT male (resin), Rc female (metal)					
Enclosure	Non-explosionproof or explosionproof					
Accuracy	Liquid: $\pm 2\%$ of full scale or better		Gas: $\pm 3\%$ of full scale or better			
Max. operating pressure	0.98MPa					
Fluid temp. range	Standard: -20 to +80°C		Explosionproof: -20 to +60°C			
Ambient temp. range	-20 to +60°C					
Major Materials	Meter body, Transmitter housing: PPS resin (Polyphenylene sulfide) O-ring: Viton					
Power supply	12 to 24VDC					
Output	Flow pulse: Open collector (Capacity: 30VDC, 20mA), Pulse width: Duty ratio 1:1 approx.					
Dusttight/waterproof rating	IP65 (※1)					
Installation location	Free from rain and water with minimal temperature variation, not exposed to the sun.					

※1: IP ratings vary according to structures.

■ UNFACTORED PULSE UNITS OF MEASUREMENT (NOMINAL VALUES)

Nominal size (mm)	Pulse units mL/P		Freq. at max. flowrate (Hz)	
	Liquid	Gas	Liquid	Gas
4	0.0890	0.890	750	320
8	0.5406	5.406	460	280
15	2.363	23.63	320	200
25	12.66	126.6	180	120

■ EXPLOSIONPROOF RATINGS

	Flowmeter	Barrier
Exp. ratings	TIIS Exia IIB T4 ATEX II 1/2 G Exia IIB T4 Ga/Gb	(Exia) IIB
		II(1)G (Exia Ga) IIB

* Barrier to be installed in a nonhazardous area.

■ EMC SPECIFICATIONS

Applicable EU directives	EMC directives: 2014/30/EU
Applicable standards, etc.	EMC directives: EN61326-1 Class A

■ PRODUCT CODE EXPLANATION

Item	Code No.										Description	
	①	②	③	④	⑤	-	⑥	⑦	⑧	⑨	⑩	
Model	F	L	P									Eggs DELTA Pulse
				0	4	-						4mm
				0	8	-						8mm
				1	5	-						15mm
				2	5	-						25mm
Nominal size				L	1							Liquid
				G	2							Gas
Acceptable fluids					P							R (male thread) Process connection material : PPS
					S							Rc (female thread) Process connection material : SCS14A
					N							NPT (male thread) Process connection material : PPS
Process connection						B						Always "B"
						0						Non-explosionproof
						1	TIIS	Intrinsically safe enclosure: Sensor + barrier				
Construction						2	ATEX	Intrinsically safe enclosure: Sensor + barrier				

■ BARRIER

Item	Description
Power	12 to 24VDC
Current drain	10mA max.
Pulse output	Open collector pulse (Capacity: 30VDC, 20mA)
Operating temp. range	-20 to +50°C
Major parts material	Housing : Polycarbonate
Dusttight, waterproof enclosure	IP30

■ OUTLINE DIMENSIONS

● R/NPT Thread		● Metal connection		● Barrier		Unit: mm
Nom. size (mm)	φD	R	L	W	H1	H2
4	8.5	R3/8	NPT3/8	80	32	29
8	13	R1/2	NPT1/2	80	32	68
15	14	R3/4	NPT3/4	85	32	29
25	24.5	R1-1/4	NPT1-1/4	120	46	46
Nom. size (mm)		φD	Rc	L	W	H1
4	8.5	Rc1/4	91	50	29	68
8	10.7	Rc1/4	91	50	29	68
15	14	Rc1/2	91	50	29	68
25	24.5	Rc1	126	46	46	85
Nom. size (mm)		Approx. weight (g)				
4	8.5	650				
8	10.7	650				
15	14	650				
25	24.5	950				

The specification as of June, 2025 is stated in this catalog. Specifications and design are subject to change without notice.



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