



PULSE SCALER

MODEL : SU1513

GENERAL SPECIFICATION
GS.No.GEF222E-3

■GENERAL

This instrument is a pulse scaler that receives a pulse signal from various kinds of flowmeters, shapes it and, after isolation, provides scaling compensation and pulse reduction to obtain two outputs individually isolated with a desired frequency division and pulse width.

■FEATURES

1. Accepts signals, produces outputs, and provides power isolation.
2. Accommodates large capacity power supply for sensor.
3. 0.0001 to 1.9999 scaling compensation is possible.
4. Pulse reduction from 1/1 to 1/10000 is possible.
5. Division ratio is selectable as desired for two outputs individually.
6. Discretionary power supply for users in the range of 85 to 264VAC (20 to 30V for DC).
7. Open collector, voltage pulse, and relay contact pulse input are available.
8. Plug-in configuration and DIN rail mount are available.



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■PRODUCT CODE EXPLANATION

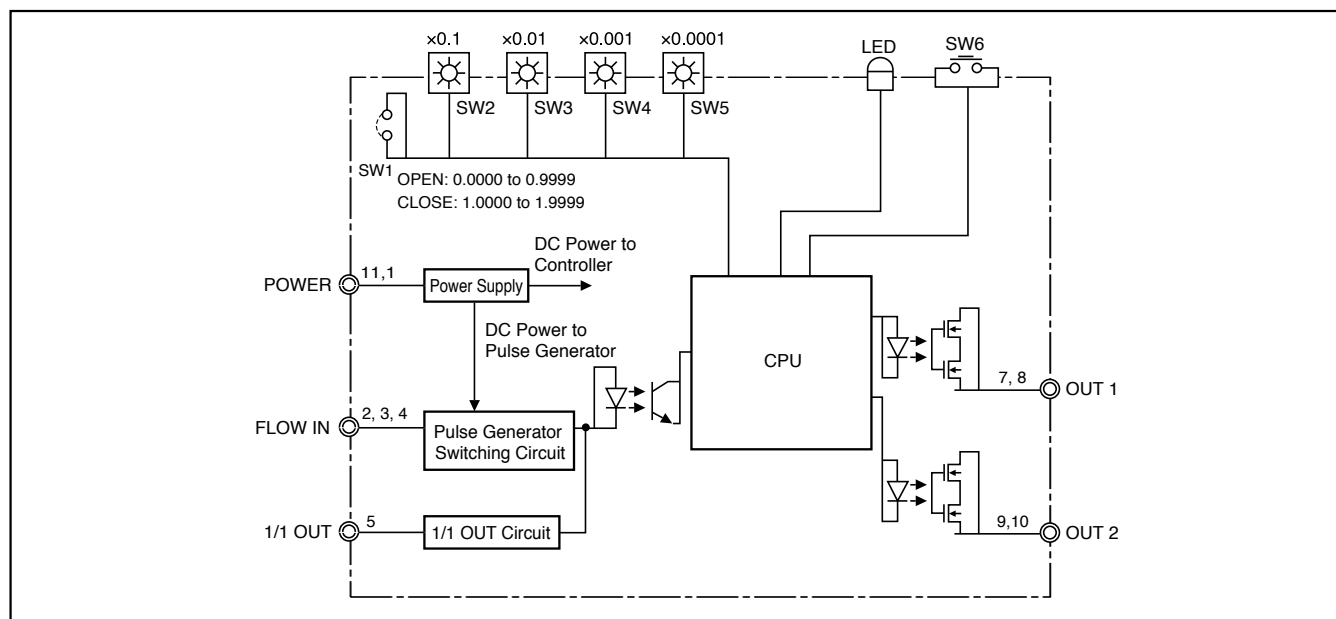
Item	Model						—	Supplementary Code							Description	
	①	②	③	④	⑤	⑥		⑦	⑧	⑨	⑩	⑪	⑫	⑬		
Type	S	U	1	5	1	3	—								Pulse Scaler	
Power Supply								6							20 to 30VDC	
								7							85 to 264VAC 50/60Hz	(※1)
								9							Other than above	
Input Signal								1							8VDC 2-wire current pulse	
								2							2-wire, 12VDC 3-wire contact-closure pulse	
								3							2-wire 12VDC 3-wire voltage pulse	
								4							24VDC 2-wire current pulse (4/20mADC)	
								5							12VDC 2-wire current pulse	
								6							2-wire, 12VDC 3-wire open collector pulse	
								8							32VDC 3-wire open collector pulse	
								B							24VDC 3-wire open collector pulse	
								9							Other than above	
Output Signal (Pulse width)								1							1ms	
								2							2ms	
								3							5ms	
								4							10ms	
								5							20ms	
								6							50ms	
								7							100ms	
								8							150ms	
								A							200ms	
								B							250ms	
								C							500ms	
								9							Other than above	
Output 1								1							Frequency division 1/1	
								2							Frequency division 1/10	
								3							Frequency division 1/100	
								4							Frequency division 1/1000	
								5							Frequency division 1/10000	
								6							Status output	
								9							Other than above	
Output 2								1							Frequency division 1/1	
								2							Frequency division 1/10	
								3							Frequency division 1/100	
								4							Frequency division 1/1000	
								5							Frequency division 1/10000	
								6							Status output	
								9							Other than above	
												0	Always “0”			
Version Code												B				

*1: The current capacity of pulse generator's power supply is 100mA when power supply is 85 to 132V AC and power to pulse generator is 24V.

In other cases, the current capacity is 40mA.

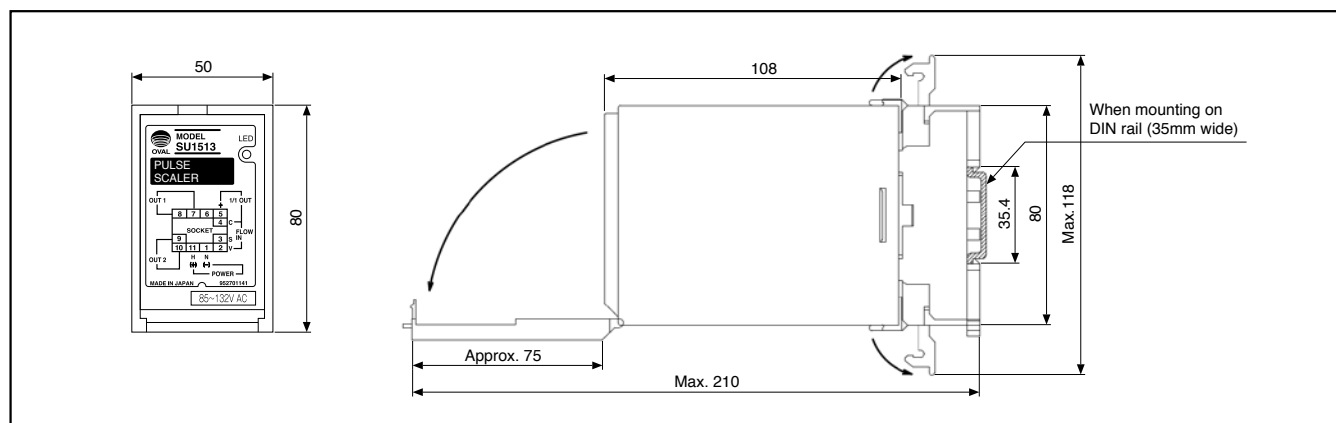
※: Selecting only status output is not permitted.

■ CONFIGURATION



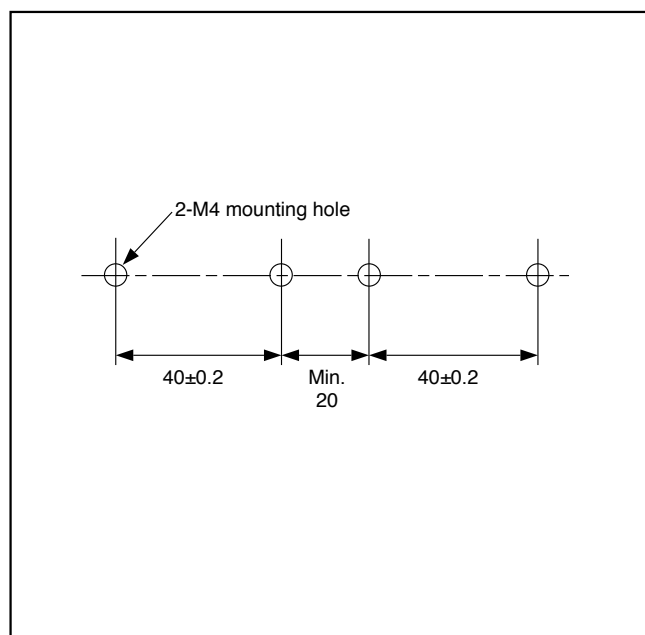
■ DIMENSIONS

Unit: mm

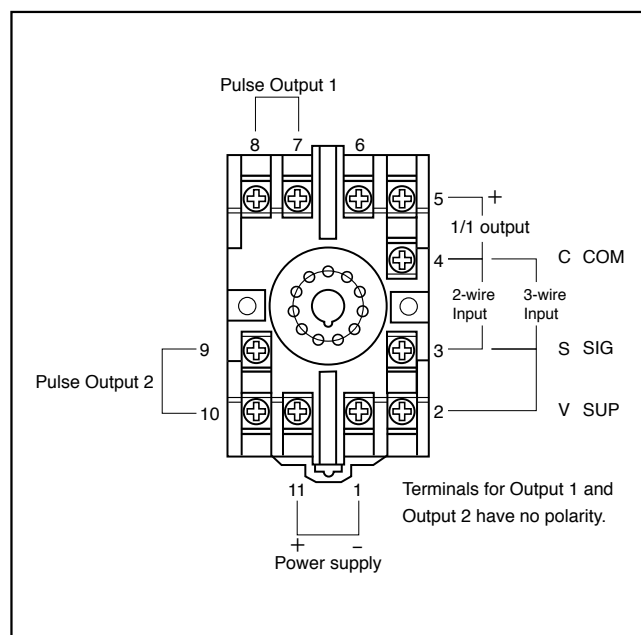


■ MOUNTING PITCH

Unit: mm



■ TERMINAL CONNECTIONS



■When you make an inquiry, please specify the model number, supplementary code and scale value of your setting of the product and the model number and specifications of the companion instrument.

■ GENERAL SPECIFICATIONS

Item		Description				
Input Signal	Incoming Pulse		Companion Pulse Generator		Power to Pulse Generator	
	8VDC 2-wire current pulse		Opto OD01, 02		8.5VDC	
	2-wire, 12VDC 3-wire contact-closure pulse		PG20		13.5VDC	
	2-wire, 12VDC 3-wire voltage pulse		PG30, NPG60A(F)		13.5VDC	
	24VDC 2-wire current pulse (4/20mADC)		PA14, 15, 25, NPG60A(E)		24.0VDC	
	12VDC 2-wire current pulse		PG30S		13.5VDC	
	2-wire, 12VDC 3-wire open collector pulse		FLOWPET-EG, NPG60A(E3)		13.5VDC	
	32VDC 3-wire open collector pulse		PA11		32.0VDC	
	24VDC 3-wire open collector pulse		Mass Flow Monitor		24.0VDC	
	Response pulse		3kHz max. (50Hz max. in case of PG20) with output 500Hz max.			
Input Frequency Pulse Output		Open collector Max. applied voltage 30V DC Allowable current 20mA NPN transistor output				
Pulse Output and Status Output after Scaler Compensation		Signal	Static relay			
		Capacity	Max. applied voltage 230VAC/340VDC Allowable current 0.2A Resistance at ON: 16Ω max. Leak current at OFF: 1μA max.			
		Output width	Settable for two circuits individually from 1ms and 50ms.			
		Scaler	0.0001 to 1.9999 in 0.0001 steps Settable with rotary switch.			
		Frequency division	Settable for two circuits individually from 1/1, 1/10, 1/100, 1/1000, and 1/10000.			
LED Indication		Error and alarm indicator				
Power Supply		85 to 132VAC 133 to 264VAC 50/60Hz or 20 to 30VDC				
Power Consumption		100VAC 15VA/200VAC 25VA(Max. 10W)				
Ambient Temperature		-10 to +50°C				
Insulation Resistance		Between Power Terminal in a lump and output terminal: 10MΩ min. (500VDC)				
Withstand Voltage		Between Power Terminal in a lump and output terminal: 1500VAC x 1min. (In case of AC terminal) Between Power Terminal in a lump and output terminal: 1000VAC x 1min. (In case of DC terminal)				
Mounting		Plug-in type (Mounted on wall or DIN rail)				
Enclosure		Resin molding, black				
Weight		0.5kg approx., including socket				
Accessory Furnished		Front panel mount socket: 1 pc. Jumper plug: 2 pc. Ferrite core only in case of DC terminal				

※1. Current capacity up to 100mA is available only with specifications of 100VAC and pulse generator's power-supply voltage of 24VDC.

※2. No setting is required for output pulse width at the time of status output.

※ : Please contact our sales office when modification of full scale value is required.

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