



PULSE DISTRIBUTOR

MODEL : SU1508

GENERAL SPECIFICATION
GS.No.GEF220E-4

■GENERAL

The pulse divider functions as a pulse divider and a frequency divider in a unit. It accepts a signal sent from a sensor and produces three outputs in a single shot after 1/1 duty wave shaping. It also functions as a frequency divider that produces three outputs with different division ratio.

■FEATURES

1. Accepts signals, produces outputs, and provides power isolation
2. Accommodates large capacity power supply for sensor
3. Pulse reduction from 1/1 to 1/10000 is available
4. Division ratio is selectable as desired for three outputs individually.
5. Discretionary power supply for users in the range 85 to 264VAC (20 to 30V for DC).
6. Pulse limiter for upper width is provided
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	0	8	—								Pulse Distributor
Power Supply								6							20 to 30VDC
								7							85 to 264VAC 50Hz/60Hz
								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								1							1ms
								2							50ms
								3							Input synchronization Pulse width upper limiter 10ms
								4							Input synchronization Pulse width upper limiter 100ms
								5							Input synchronization Duty 1:1 output (Response 500Hz max.)
								7							Pulse frequency division
								9							Other than above
Output 1								0							It chooses except output pulse width's code " 7 "
								1							Frequency division 1/1 pulse width 1ms
								2							Frequency division 1/10 pulse width 1ms
								3							Frequency division 1/100 pulse width 1ms
								4							Frequency division 1/1000 pulse width 1ms
								5							Frequency division 1/1 pulse width 50ms
								6							Frequency division 1/10 pulse width 50ms
								7							Frequency division 1/100 pulse width 50ms
								8							Frequency division 1/1000 pulse width 50ms
							9							Other than above	
Output 2								0							It chooses except output pulse width's code " 7 "
								1							Frequency division 1/1 pulse width 1ms
								2							Frequency division 1/10 pulse width 1ms
								3							Frequency division 1/100 pulse width 1ms
								4							Frequency division 1/1000 pulse width 1ms
								5							Frequency division 1/1 pulse width 50ms
								6							Frequency division 1/10 pulse width 50ms
								7							Frequency division 1/100 pulse width 50ms
								8							Frequency division 1/1000 pulse width 50ms
							9							Other than above	
Output 3								0							It chooses except output pulse width's code " 7 "
								1							Frequency division 1/1 pulse width 1ms
								2							Frequency division 1/10 pulse width 1ms
								3							Frequency division 1/100 pulse width 1ms
								4							Frequency division 1/1000 pulse width 1ms
								5							Frequency division 1/1 pulse width 50ms
								6							Frequency division 1/10 pulse width 50ms
								7							Frequency division 1/100 pulse width 50ms
								8							Frequency division 1/1000 pulse width 50ms
								A							Frequency division 1/10000 pulse width 1ms
							B							Frequency division 1/10000 pulse width 50ms	
							9							Other than above	
Version Code													A		

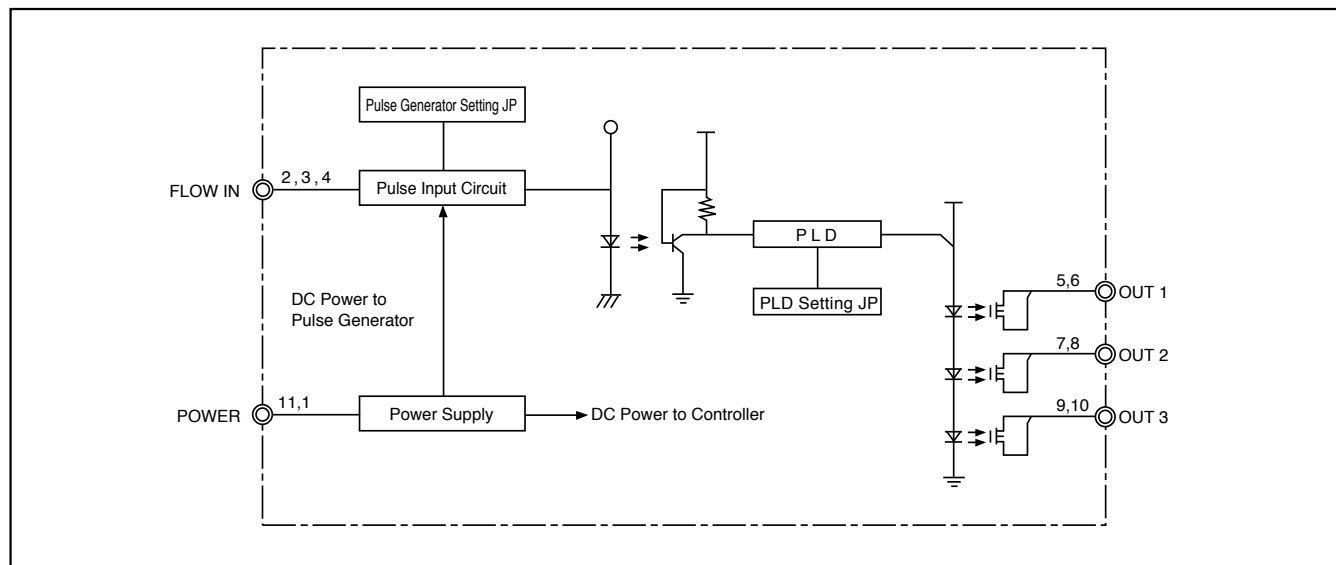
※1: The current capacity of pulse generator's power supply is 100mA when power supply is 85 to 132VAC and power to pulse generator is 24V.

In other cases, the current capacity is 40mA.

To use this device as a pulse distributor, select a supplementary code for output signal from "1 to 5", and select "0" for supplementary codes ⑩, ⑪, and ⑫.

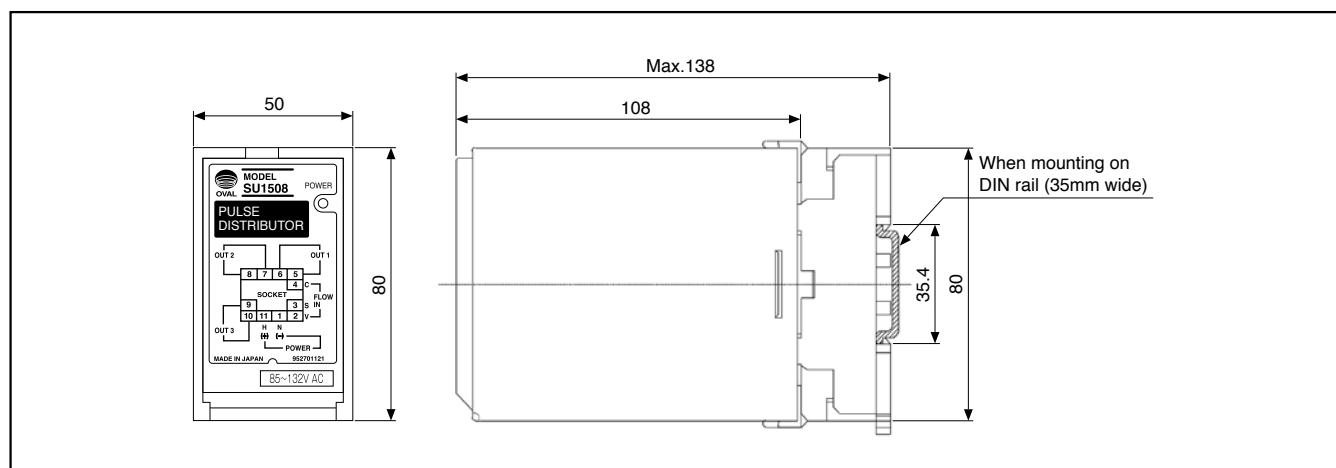
To use this device as a pulse divider or frequency divider, select "7" for output signal, then choose pulse width and frequency division for supplementary codes ⑩, ⑪, and ⑫.

■ CONFIGURATION



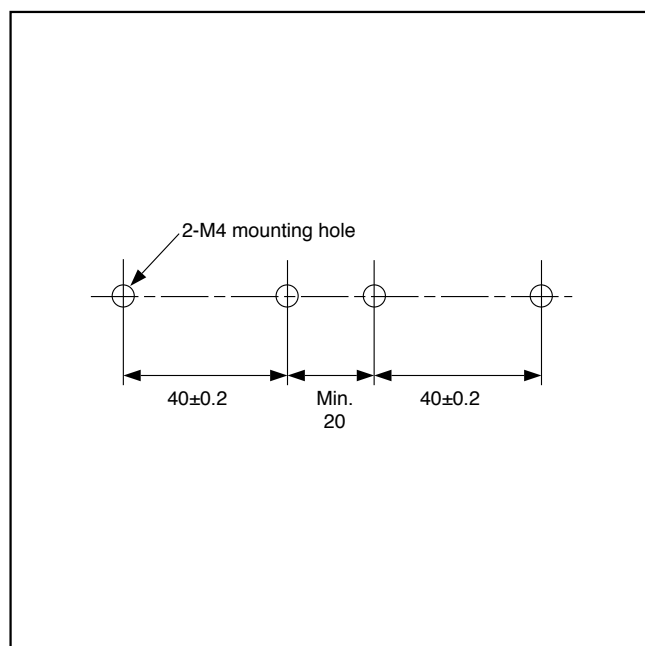
■ DIMENSIONS

Unit: mm

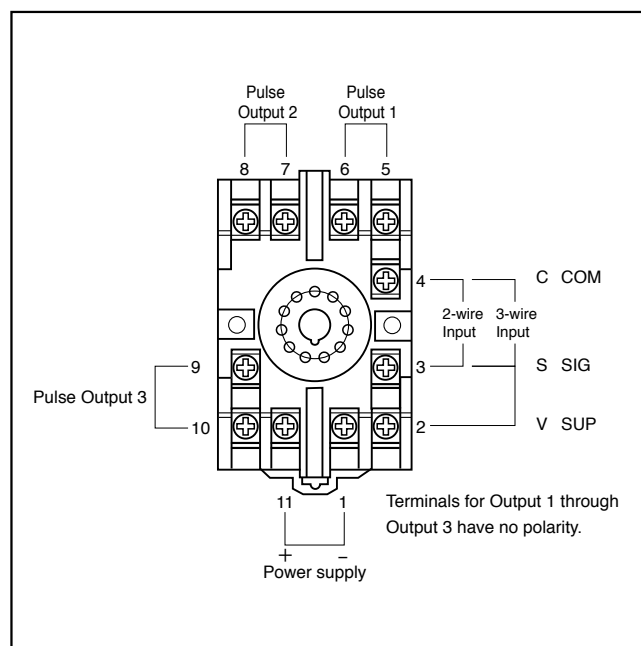


■ MOUNTING PITCH

Unit: mm



■ TERMINAL CONNECTIONS



■When you make an inquiry, please specify the model number, supplementary code 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	Current carrying capacity 40mA approx. with short-circuit protection circuit (※1)	
	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		5kHz max. (50Hz max. in case of PG20) with output 500Hz max.				
Output Signal	Signal		Static relay, three outputs				
	Capacity		Max. applied voltage 230VAC/340VDC Allowable current 0.2A “ON” resistance: 16Ω max.“ OFF” leak current: 1μA max.				
	Output pulse width		1. Single shot 1ms, 50ms (Three outputs can be set individually.) 2. Duty 1:1 (Response 500Hz max. 100ms single shot for 4Hz or less) 3. Input synchronization (Pulse width upper limiter 10 ms, 100ms)				
	Output frequency		Max. output frequency: 500Hz				
	Frequency division		OUT1 : 1/1, 1/10, 1/100, 1/1000 OUT2 : 1/1, 1/10, 1/100, 1/1000 OUT3 : 1/1, 1/10, 1/100, 1/1000, 1/10000				} Individually chosen for each output.
	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.

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