

This slim-type plug-in converter (pulse isolator) receives a pulse train signal extracted from the sensor or control equipment, adds waveform shaping, insulation, and level conversion, and then outputs two pulse string signals. And also provides isolation of up to 2000V between the signal input, output, and power supply.

### Features

- ★ High vibration tolerance
- ★ Dielectric strength of 2000Vac between input, output and power supply
- ★ Isolated two signal outputs are available
- ★ Both AC and DC power supply are available
- ★ Easy to maintain by plug-in structure
- ★ Output modes can be selected with the DIP switch

### Ordering code

WGP- **FZ** -    -

Code	Input
12	Voltage pulse (Peak to peak voltage measurement type) 200mVp-p to 50Vp-p (0V on center)
14	<div>DIP Switch Selection</div> <div>Voltage pulse Compatible with proximity switch and light switch [1]: 5 to 30V, [0]: -30 to 1.5V</div> <div>ON-OFF pulse Compatible with non-voltage contact and open collector 5V at OFF, 1mA at ON</div>
99	Contact us for other than the above

Code	Power Supply
1	80 to 132Vac 50/60Hz Rated voltage : 100 to 120V
2	170 to 264Vac 50/60Hz Rated voltage : 200 to 240V
3	24Vdc ±10%
8	110Vdc ±10%

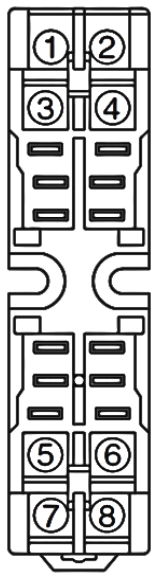
Code	Output 2	Rated value
C	Open collector	30Vdc, 30mA or less, ON-voltage 0.4V or less
K	12V voltage pulse output	[1]: 12V, [2]: 0.4V or less Internal resistance 1kΩ

Code	Output 1			Rated value
E	One-shot non contact output (Max. 5Hz) For driving AC/DC electromagnetic counter ON-time 100ms			ON-voltage : 2V (max.) ON-current : 500mA or less Operating circuit voltage : 200Vdc, 130Vac or less
F	DIP Switch Selection	Open collector output	Through mode	30VDC, 30mA or less ON-voltage : 0.4V or less
			One-shot output mode 100ms duration (Max. 5Hz)	
		Voltage pulse output	Through mode	[1] : 5V or 12V (selected via DIP switches) [0] : 0.4V or less Internal resistance : 620Ω
			One-shot output mode 100ms duration (Max. 5Hz)	
S	Contact us for other than the above			

### Specifications

Input / output frequency	DC to 100kHz (any frequency) If input signal code is '12', 10Hz or less not available If output signal code is 'E', Max. 5Hz
Input waveform	Square or sine (Duty ratio 25 to 75%)
Input resistance	For input code '12' : 100kΩ or more / For input code '14' : 20kΩ or more
Output waveform	For output code : 'E' Electromagnetic counter ON-time 100ms For output code : 'F' Voltage pulse and Open collector and their One-shot output (DIP Switch selection)
Operating temperature	-5 to +55°C
Operating relative humidity	90% or less (non-condensing)
Isolation	Between input, output, and power supply
Insulation resistance	100MΩ or more with a 500Vdc megger Between input, output, and power supply terminal
Dielectric strength	2000Vac for 1 minute
Power consumption	Approx. 4.5VA (AC), Approx. 90mA (DC)
Dimensions	105(H) X 25.6(W) X 136.5(D)mm
Weight	Approx. 200g
Structure	Plug-in
Connection	M3.5 SEMS screw part of the base socket
Material of terminal screw	Chromated iron
Case color and material	Ivory, heat-resistant ABS resin(94V-0)
Mounting	DIN rail or wall surface

### Terminal connections



No	Signal	Description
1	INPUT(+)	Input
2	INPUT(-)	
3	OUTPUT 2(+)	Output 2
4	OUTPUT 2(-)	
5	OUTPUT 1(+)	Output 1
6	OUTPUT 1(-)	
7	POWER U(+)	Power Supply
8	POWER V(-)	

\* Specification is subject to change without notice