



Pulse isolator which outputs with pulse waveform shaping

(Unit : mm)

Features

- ★ Easy maintenance by plug-in structure
- ★ Compatible with maximum 60°C operating temperature
- ★ FDH : Duty 50% output function equipped

Ordering code

WAP- - -

Code	Type
FZH	Pulse isolator
FDH	Pulse divider
FRH	Pulse rate divider

Code	Power Supply
1	100Vac ±10% 50/60Hz
2	200Vac ±10% 50/60Hz
4	110Vac ±10% 50/60Hz
5	220Vac ±10% 50/60Hz

Code	Input
12	Voltage pulse (Peak to peak voltage measurement type) 200mVp-p to 50Vp-p (0V on center)
14	Voltage pulse (Compatible with proximity switch and light switch) In the range of DC ±30V [1]: 5 or more, [0]: 1.5V or less ON-OFF pulse (Compatible with non-voltage contact and open collector) 12V at OFF, 1mA at ON
90	Line-driver input (AM26LS31) Receiver AM26LS32
99	Contact us for other than the above (DIP switch not available)

Code	Output	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	Normal mode (Max. 100kHz)
		One-shot output mode 100ms duration (Max. 5Hz)
F	DIP Switch Selection Voltage pulse output	Normal mode (Max. 100kHz)
		One-shot output mode 100ms duration (Max. 5Hz)
G	DIP Switch Selection	Normal mode (Max. 10kHz) Inversion or Non-inversion
		One-shot output mode ON time 100ms (Max. 5Hz)
H	DIP Switch Selection	Duty 50% output (Only FDH)
		Open collector output (Max. 500kHz)
		Voltage pulse output (Max. 100kHz)
S	Contact us for other than the above (DIP switch not available)	

Specifications

Input frequency	DC~100kHz (optional frequency) *Cannot make 10Hz or less for input code 12
Input waveform	Square or sine (Duty ratio 25 to 75%)
Sensor power supply	12Vdc ±5%, 25mA
Output frequency	DC~100kHz (Max. 5Hz for one shot output) *Normal output of output code G is Max. 10Hz
Output waveform	For output code : 'E' One-shot output with ON-time of 100ms For output code : 'F' Voltage output / opencollector output / one shot output (DIP switch) For output code : 'G' Non-voltage dry contact output, normal and one shot output (DIP switch) For output code : 'H' Duty 50% voltage pulse output and opencollector output (Only for FDH model)
Operating temperature	-5 to +60°C
Operating relative humidity	90% or less (non-condensing)
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. 4VA (AC)
Dimensions	97(H) X 51(W) X 126(D)mm
Weight	Approx. 400g
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	OUTPUT(+)	Output
2	OUTPUT(-)	
3	INPUT(+)	Input
4	INPUT(-)	
5	SENSOR(+)	Sensor power supply
6	SENSOR(-)	
7	POWER U(+)	Power Supply
8	POWER V(-)	

* Specification is subject to change without notice