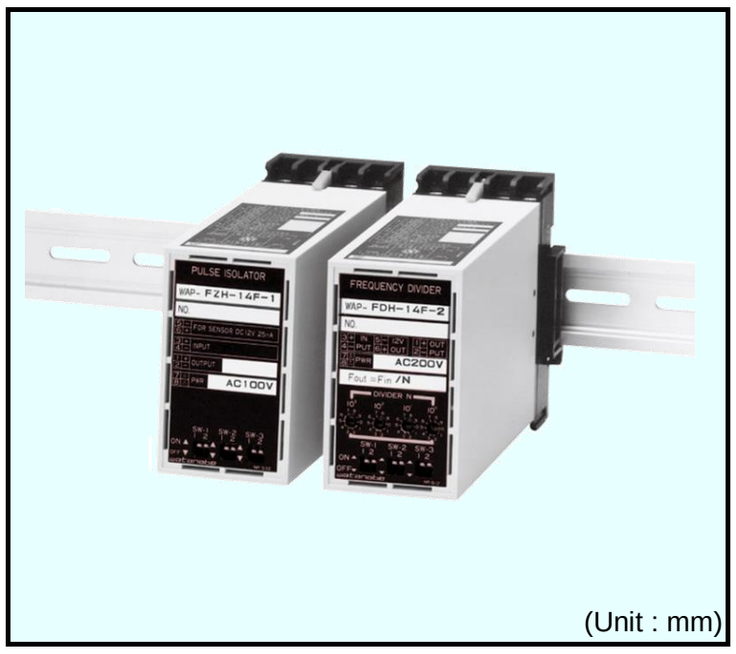
Pulse Isolator, Pulse divider

WAP-FZH / FDH/ FRH



(Unit : mm)

Pulse isolator which outputs with pulse waveform shaping

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	Pluse 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

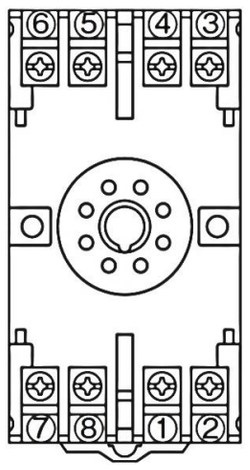
Code	Input	
12	Voktage pulse (Peak to peak voltage measurement type) 200mVp-p to 50Vp-p (0V on center)	
14	DIP Switch Selection	Voltage pulse (Compatible with proximity switch and light switch) In the range of DC ±30V [1]: 5 or more, [0]: 1.5V or less
		ON-OFF pulse (Compatible with non-voltage contact 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
F	DIP Switch Selection	Open collector output	Normal mode (Max. 100kHz)	30VDC, 30mA or less ON-voltage : 0.4V or less
			One-shot output mode 100ms duration (Max. 5Hz)	
		Voltage pulse output	Normal mode (Max. 100kHz)	[1] : 5V or 12V (selected via DIP switches) [0] : 0.4V or less Internal resistance : 620Ω
			One-shot output mode 100ms duration (Max. 5Hz)	
G	DIP Switch Selection		Normal mode (Max. 10kHz) Inversion or Non-inversion	Rated control capacity : 2Adc, 24V Max. allowable power : 30W, 125VA Max. allowable voltage : 220Vdc, 250Vac Max. allowable current : 2A (AC/DC)
			One-shot output mode ON time 100ms (Max. 5Hz)	
H	DIP Switch Selection		Duty 50% output (Only FDH)	Duty 50% output (Only FDH)
			Open collector output (Max. 500kHz)	30Vdc 30mA or less ON voltage 0.4V or less
			Voltage pulse output (Max. 100kHz)	[1] : 5V or 12V (selected via DIP switches) Internal resistance : 620Ω [0] : 0.4V or less
S	Contact us for other than the above (DIP switch not available)			

Specifications

Input frequency	DC~100kHz (optional ferquency) *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 outout) *Normal output of output code G is Max. 10Hz
Output waveform	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**