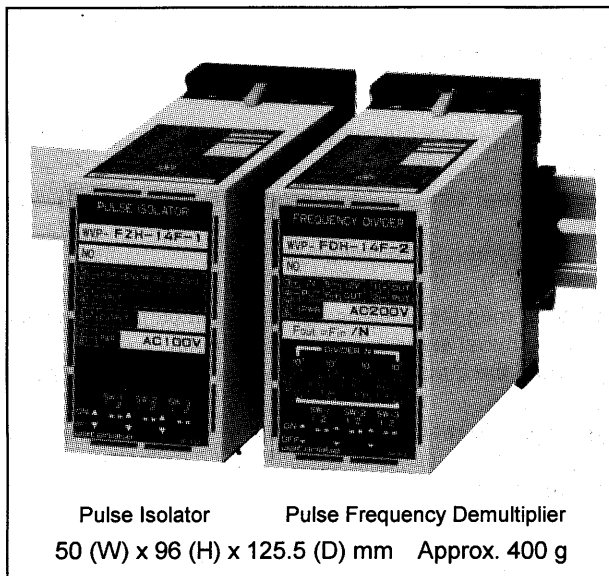


PULSE ISOLATOR AND FREQUENCY DIVIDER

DIELECTRIC STRENGTH 2,000 VAC

WVP-FZH/FDH/FRH



The pulse isolator is a pulse repeater that receives pulse-train signals and outputs pulses that are shape-fitted and opto-isolated. The pulse frequency demultiplier is a pulse divider that demultiplies the frequency of pulse-train signals, and outputs pulses that are scaled, shaped into a waveform and opto-isolated. Models adopting two different frequency demultiplication methods can be selected depending on the application. Some FDH models can deliver an output equal to a 50% duty ratio.

Features

- The input and the output are isolated using the highly reliable photocoupler method.
- Capable of supplying power to sensors (when connected to an AC power supply).
- The dividing coefficient can be changed freely from the front panel (FDH and FRH models).
- Plug-in design enables mounting on DIN rails or direct installation.
- Various output modes can be chosen via DIP switches.

Model WVP - F H - -

FZH	Pulse isolator	Isolated	Dielectric strength 2,000 VAC (1 min.)
FDH	Pulse divider	Isolated	Dielectric strength 2,000 VAC (1 min.)
FRH	Pulse rate divider	Isolated	Dielectric strength 2,000 VAC (1 min.)

Power Supply	
1	AC 100 V \pm 10%, 50/60 Hz
2	AC 200 V \pm 10%, 50/60 Hz
3	DC 24 V \pm 10%
4	AC 110 V \pm 10%, 50/60 Hz
5	AC 220 V \pm 10%, 50/60 Hz

Input Signal	
12	Voltage pulse input impedance: 100 K Ω or more (peak-to-peak voltage detection type) 200 mVp-p to 50 Vp-p, with 0 V in the center
14	Selected via DIP Switches Voltage pulse input impedance: 20 K Ω or more (compatible with proximity switches and opto-electric switches) [1]: 5 V or more [0]: 1.5 V or less ON-OFF pulses (compatible with non-voltage contacts and open collector) 12 V at OFF 1 mA at ON
22	Current pulse 4/10 mA, Input resistance 330 Ω
90	Line driver (equivalent to AM26LS31) input The receiver is AM26LS32.
99	Other than the above (Please consult with us.)

Prices vary with the line driver input specifications. Please call for prices.

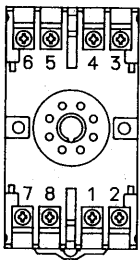
Output Signal	
E	One-shot non-contact output For driving AC/DC electromagnetic counters ON-time 100 msec ON-voltage 2 V (max.) ON-current 500 mA or less Operating circuit voltage 200 VDC, 130 VAC or less.
F	* Open-collector output * One-shot open-collector output ON-time width 100 msec 30 VDC, 30 mA or less ON-voltage 0.4 V or less * Voltage pulse output * One-shot voltage pulse output ON-time width 100 msec [1]: 5 V / 12 V (selectable via DIP switches) Internal resistance 620 Ω [0]: 0.4 V or less
G	* Non-voltage dry-contact output * One-shot output (max. 5 Hz) ON-time 100 msec Rated control capacity 24 VDC, 2 A (max.) 10 mVDC, 10 μ A (min.)
H	Output with 50% duty Can be made only in FDH model. * Open-collector output 3 VDC, 30 mA or less, ON-voltage 0.4 V or less * Voltage pulse output [1]: 5 V / 12 V (selectable via DIP switches) Internal resistance 620 Ω [0]: 0.4 V or less

* Within the same output code, selection can be made via the DIP switches located on the front panel of the unit.

Specification

Input signal:	Pulse frequency
Input frequency:	DC-100 KHz (any frequency) Frequencies of 10 Hz or less are not applicable to input signal 12.
Input waveform:	Sine wave or rectangular wave (duty 25-75%)
Sensor power supply:	12 VDC, 25 mA, stabilized power supply
Output frequency:	DC-100 KHz
Output waveform:	<ul style="list-style-type: none"> - Type E: One-shot output for driving electromagnetic counter, with ON-time of 100 msec. - Type F: Voltage pulse output and open-collector output, and their respective one-shot outputs (selectable via DIP switches). - Type G: Non-voltage dry-contact output Normal and one-shot output (selectable via DIP switches). - The output of the FRH model contains jitter in the pulse spacing.
Frequency dividing setting device:	DIP rotary switch, 4-digit
Frequency dividing range (changeable):	- FDH model (number of input pulses) $\times \frac{1}{2-9999}$ "H" output is $\frac{1}{1-9999} \times \frac{1}{2 \text{ or } 4}$ - FRH model (number of input pulses) $\times \frac{1-9999}{10000}$
Operating temperature and humidity:	-5 to +55°C, 90% RH or less (without condensation)
Insulation resistance:	100 MΩ or more with a 500 VDC megger between the input/output terminal and power supply terminal, and between the input and output terminals
Dielectric strength:	2,000 VAC for 1 minute between input, output and power supply terminal
Power consumption:	Approx. 4 VA (AC), approx. 120 mA (DC)
Reset:	Automatically reset within 0.5 sec of power-on

Explanation of Terminals



No.	Symbol	Description
1	OUTPUT	+
2		-
3	INPUT	+
4		-
5	SENSOR	-
6		+
7	POWER	U (+)
8		V (-)