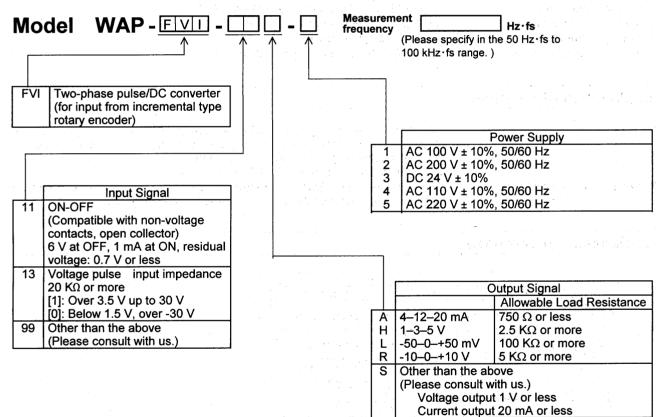


This unit is a small-sized plug-in signal converter that converts a two-phase pulse signal mutually dephased by 90 degrees, emitted from an incremental type rotary encoder, into an analog signal that allows to identify the rotating direction by a magnitude proportional to its frequency.

Features

- Outputs analog signals corresponding to rotating speed and rotating direction.
- Offers the high responsibility of 100 kHz.
- Has its input, output and power supply isolated from one another with a dielectric strength of 2,000 VAC.
- Capable of feeding an encoder with power (12 VDC, 50 mA).
- Small-sized plug-in type, which is attached to or detached from DIN rails by a one-touch action.



Specifications

Measurement frequency:

50 Hz.fs to 100 kHz·fs (2 phases with 90° phase difference)

Accuracy:

±0.2% · fs (at 23°C)

Output ripple:

±0.2%p-p·fs

Allowable load resistance:

In case of voltage output, please use the unit with a load current of 2 mA or less

(1 μA or less for an output below 1 V·fs).

In case of current output, use it with a voltage drop of 15 V or less between

output terminals.

Operating temperature and humidity: -5 to +60°C, 90% RH or less (without condensation)

Influence of ambient temperature:

±0.15% · fs/10°C

Insulation resistance:

100 M Ω or more with a 500 VDC megger between input and output terminals.

and between input/output terminal and power supply terminal

2,000 VAC for 1 minute between input and output terminals, and between input/output terminal and power supply terminal

Power consumption:

Dielectric strength:

Approx. 5 VA (AC), 180 mA (DC)

Sensor power supply:

12 VDC ±5%, 50 mA (max.)

Response time and shutdown:

12 VDO 2070, 00 1117 (111ax.			
Measurement Frequency	* Response Time	** Shutdown Frequency	
50-100 Hz·fs	Approx. 2 sec	Approx. 2.5 Hz	
101-200 Hz · fs	Approx. 1 sec	Approx. 5 Hz	
201-500 Hz·fs	Approx. 0.5 sec	Approx. 10 Hz	
501 Hz-100 KHz·fs	Approx. 0.2 sec	Approx. 25 Hz	

Time for the output to reach 90% fs when the input varies from 0 to 100%.

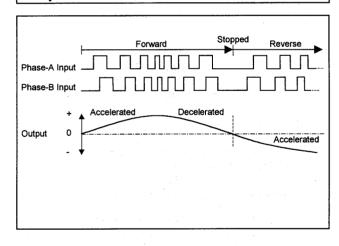
Zero & span adjustment:

±20% · fs each (multi-turn trimmer)

Major Applications

- Monitoring of rotating angle and rotating direction of rollers.
- Recording of operating state of flow meters and measuring machines on chart recorders.

Output Waveform



Pin and Terminal Assignment

	No.	Symbol		Description
	1	OUTPUT	+	Output signal
06 5 4 3 6	2	-	-	
00	3_	A-INPUT	+	Phase-A Input
	5	B-INPUT		Common Phase-B Input
	6	SENSOR	+	Sensor Power supply
<u> </u>	7	POWER	U (+)	(+) Power supply
	8	POWER	V (-)	
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Frequency at which the function to forcibly reduce the output to zero starts working when the input signal falls to below the input rating.