



Converter which outputs DC signal proportional to the Pulse / Frequency

Features

- ★ Conterts Pulse / Frequency to DC voltage or DC current
- ★ 3 port isolation between Input-Output-Power supply
- ★ DIN rail mount
- ★ Terminal block type

Ordering code

TW - 3K - - C

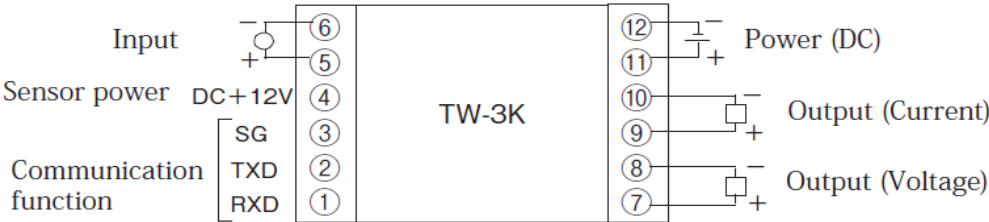
Code	Input	Detect level
A	TTL (5V)	Frequency range : 0~0.01Hz to 0~100kHz Detect level : 5VDC (DUTY : 20~80%)
B	Voltage pulse (Zero-crossing)	Frequency range : 0~0.01Hz to 0~100kHz Detect level : 4Vp-p~50Vp-p / Max.50VDC (DUTY : 20~80%)
C	Voltage pulse (Input Not Zero-crossing)	Frequency range : 0~1000Hz to 0~100kHz Detect level : 4Vp-p~50Vp-p / Max.50VDC (DUTY : 20~80%)
D	Open collector (Detected voltage : 5VDC/1mA)	Frequency range : 0~0.01Hz to 0~100kHz Detect level : 5V/1mA, ON resistance 700Ω or more, OFF resistance 3kΩ or more
E	Open collector (Detected voltage : 12VDC/1mA)	Frequency range : 0~0.01Hz to 0~100kHz Detect level : 12V/1mA, ON resistance 700Ω or more, OFF resistance 2.4kΩ or more
F	Contact switch (Detected voltage : 5VDC/1mA)	Frequency range : 0~0.01Hz to 0~10Hz Detect level : 5V/1mA, ON resistance 700Ω or more, OFF resistance 3kΩ or more
G	Contact switch (Detected voltage : 12VDC/1mA)	Frequency range : 0~0.01Hz to 0~10Hz Detect level : 12V/1mA, ON resistance 700Ω or more, OFF resistance 2.4kΩ or more

Code	Output	Mininum span
1	0~0.1Hz	More than 0~0.01Hz
2	0~1Hz	More than 0~0.2Hz
3	0~10Hz	More than 0~2Hz
4	0~100Hz	More than 0~20Hz
5	0~1kHz	More than 0~100Hz
6	0~10kHz	More than 0~1kHz
7	0~100kHz	More than 0~10kHz
Y	Contact us for other than the above	

Code	Output	Allowable Load Resistance
0	0 to 5VDC	2kΩ or more
1	1 to 5VDC	
2	0 to 10VDC	4kΩ or more
A	4 to 20mVDC	550Ω or less
Y	Contact us for other than the above	

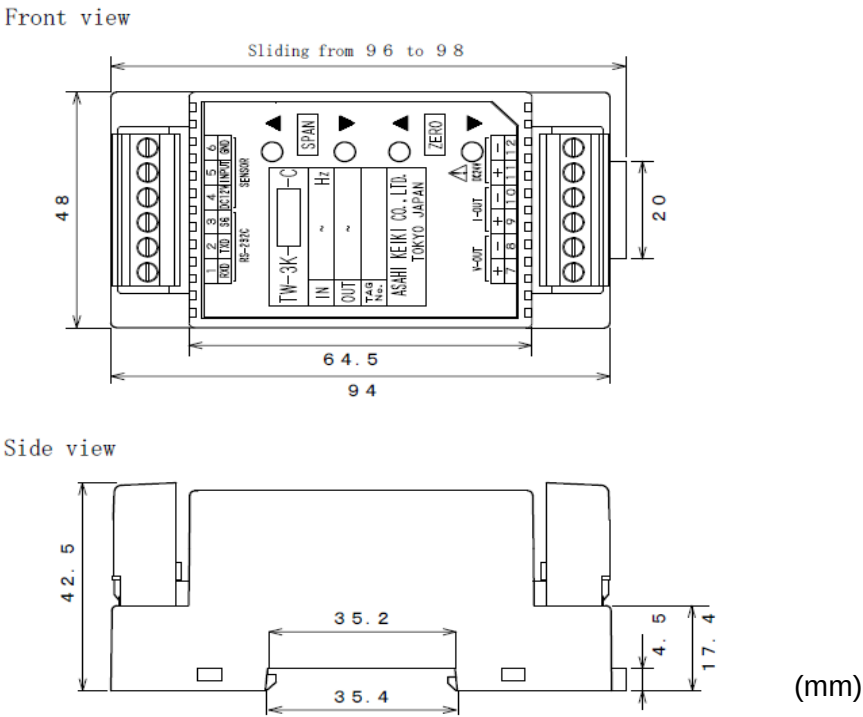
※When the input frequency exceeds 100 percent of the full scale, signals ranging from 105 to 110 percent of thefull scale are output.
※Possible to change input & output signal by customer using the communication function.

Terminal connections



No	Symbol		Description
1	RXD		Communication function for setting
2	TXD		
3	SG		
4	SENSOR		Sensor power supply
5	INPUT	+	Input
6		-	
7	OUTPUT	+	Output (Voltage)
8		-	Output (Current)
9		+	
10		-	
11	POWER	U(+)	Power Supply
12		V(-)	

Dimensions



* Specification is subject to change without notice

Specifications

Input signal	Pulse frequency
Output signal	DC current / voltage
Accuracy	±0.2% of full scale (at 25°C ±2°C)
Temperature coefficient	±0.02% of full scale per °C
Response time	1.5s + 1 cycle of input pulse (0 to 90%)
Insulation resistance	100MΩ or more with 500Vdc megger Between input, output, and power supply terminal
Dielectric strength	1500Vac for 1 minute Between input, output, power supply terminal Leak current 2mA
Power supply voltage	24VDC ±10%
Sensor power supply	12VDC ±1% 30mA
Power consumption (current)	110mA or less (When 30mA sensor power supply)
Operating temperature range	-5 to +50°C
Operating relative humidity	90% or less (Non-condensing)
Cut point	0.00~99.99% (Default 0%. Set by communaicaon function)
Dimensions	98(H) X 48(W) X 41(D)mm
Weight	Approx. 150g
Accessory	Terminal cover, Removable type 6p connector

Block diagram

