Frequency converter TW-3K



- Features
- One touch mounting to the DIN rail
- Possible to change the setup value by communication

SPECIFICATIONS

■Input type code

■Input type code		
Code No.	Input signal	
Α	TTL(5V)	
В	Voltage pulse (Zero crossing of the input voltage)	
С	Voltage pulse (Not Zero crossing of the input voltage)	
D	Open collector (Detected voltage :5VDC/1mA)	
Е	Open collector (Detected voltage :12VDC/1mA)	
F	Contact switch (Detected voltage:5VDC/1mA)	
G	Contact switch (Detected voltage:12VDC/1mA)	

■Measurement range code

■ Micasar cilicite range code				
Code No.	Output type	Minimum Span		
1	0 to 01Hz	More than 0.01Hz		
2	0 to 1Hz	More than 0.2Hz		
3	0 to 10Hz	More than 2Hz		
4	0 to 100Hz	More than 20Hz		
5	0 to 1kHz	More than 100Hz		
6	0 to 10kHz	More than 1kHz		
7	0 to 100kHz	More than 10kHz		
Υ	other than the above	Note		

Weight Less than 150g

Accessory Instruction manual, Removal type 6P connector, terminal

Power supply for sensor DC12V±1%, 30mA

> With short circuit protection function (Approx.360mA at short circuit time)

Cut point 0.00 to 99.99%(setting by communication method)

※ In case no communication function. Please specify at purc

Ship the product with 0% setup in case no specification.

Zero adjustment range ±5%FS(By the front side tact switch) Span adjustment range $\pm 5\%$ FS(By the front side tact switch)

96~98スライト

Note: The minimum span for Y is the same for the code covering the desired measuring range.

■Output type code

Code	Output signal	Load resistance
0	0 to 5VDC	More than 2kΩ
1	1 to 5VDC	WOTE CHAIT ZK12
2	0 to 10VDC	More than 4kΩ
Α	4 to 20mADC	Less than 550Ω
Υ	Other than the above	

■ Communication setup

Setup section Communication specification Baud rate 9600bps Input number of frequency setup Output range, output type setup Output adjustment setup Character 8 bit

Parity No parity Cut point value setup Stop bit 1 bit

■External dimension diagram

FRONT

SIDE

SIDE(Terminal cover attached)

When the input frequency exceeds 100 percent of the full scale, signals ranging from 105 to 110 percent full scale are output.

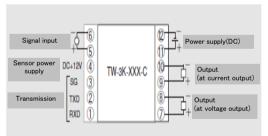
For code No. Y limit of specifications $\begin{tabular}{lll} Voltage output & : 0 to 10VDC per 1V span \\ Current output & : 0 to 20mADC per 1mA span \end{tabular}$

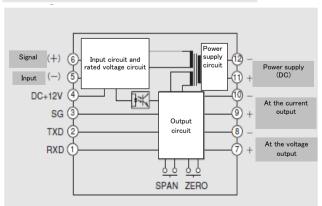
*Possible to change input and output signal by customer using the communication function.

■Ordering code



■Input and output connection diagram





Note)There are things limitting the measurement range by input type

■General specifications

Consuming current

:Less than 0.20%F.S.(At 25°C \pm 2°C) Accuracy

Temperature characteristic : ±0.02%F.S./°C

Response spped :1.5sec + input pulse 1 cycle (0%~90%) :Between inputs-outputs-power supplies More than 100M Ω (DC500V) Insulated resistance

Dielectric voltage Between inputs-putputs-power supplies AC1500V per minute

:Less than 110mA (At sensor power supply 30mA)

-10~70°C · Less than 90%

Power supply voltage :DC24V±10% :-5∼50°C·Less than 90%RH Operating tmperature and humidity (No condensing)

Storage temperature and (No condensing) humidity