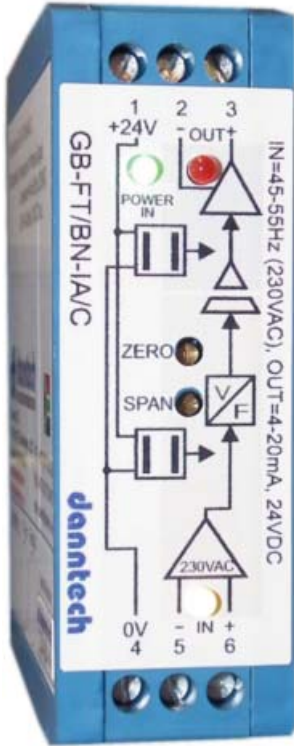


# FREQUENCY TO PROCESS SIGNAL CONVERTER



- **Inputs from 50 mV to 230 VAC, frequencies from 1 pulse per hour up to 100 kHz.**
- **Good for impeller flowmeters, rotating shaft speed measurement using proximity sensors.**
- **Power frequency conversion for generator monitoring and control.**
- **Configurable low frequency response.**
- **Pulse width and PWM conversion.**

## PART NUMBERING:

GB-FT/knnn-xt/p	k=input signal type nnn=frequency range code xt=output type and range p=auxiliary power supply
GB-FT/kUCV-xt/p	User Configurable Version



## SPECIFICATIONS:

- Input signal frequency range from 0.01 Hz to 100,000 Hz.

### Standard operating ranges:

One pulse per hour to one pulse per second  
0.001 to 10 Hz, 0.01 to 100 Hz, 0.1 to 1,000 Hz,  
1 to 10,000 Hz, 10 to 100,000 Hz.

### Input types:

- AC - 10 V AC to 250 V AC (mains and other larger AC signals).
- AC – 50 mV AC to 10 V AC (impeller type flowmeters).
- DC offset - < 2 V to > 15 V (proximity switches, potential free contacts)
- DC offset - < 9 V to > 18 V
- DC offset – others
- Namur
- ±10% over and under-range on the input.
- Output signal range 4-20 mA, 0-20 mA, 0-10 V, 0-5 V, ±10 V.
- When input frequency goes below the “drop-out” frequency for the “drop-out” delay time the output

goes to the “drop-out” output value (all configurable).

- Output zero and span adjustable approximately ±10% of the range
- Step response approximately 10 mSec for frequency inputs above 100 Hz and at input frequency below 100 Hz.
- Linearity better than 0.2% of full scale.
- Input LED flashes with the input (yellow) indicating that the input is detected.
- Input supply 24 VDC, 12 VDC ±10% or 22 to 30 VDC.
- Isolation between input, output and DC supply >1000 VDC.
- Operating temperature -10 to 65°C.
- Calibration sheet provided for each unit manufactured.
- DIN rail mounting.
- Screw terminal connections.
- Dimensions 25 x 80 x 85 mm (W x H x D).



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