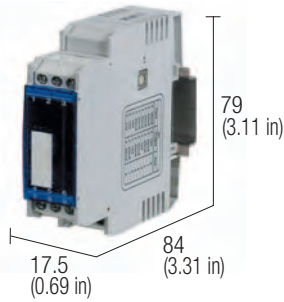


# Frequency to analog signal converters

- Adjustable frequency range 0...28.8 KHz
- 3 programmable analog signal output ranges
- 3 ways I/O 2.5 KV isolation

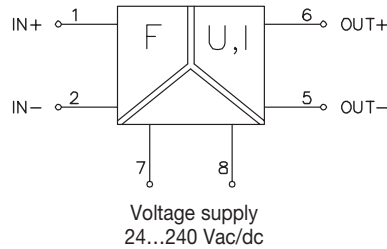


## NOTES

The dimensions include the terminal blocks and the DIN clamp.

- (1) range 16.8...30 Vdc / 19.2...28.8 Vac  
 (2) 3-way isolation: IN/OUT

## BLOCK DIAGRAM



## VERSIONS

Cat. No. X756524

CWNFA 6-0524

## APPLICATIONS

This module is used to convert a frequency signal, with either sinusoidal or square waveform, into a standard analog signal (eg. 0...10 V, 0..20 mA, 4...20 mA). A microprocessor provides a high resolution, high stability and accuracy output signal and a dip switch gives the possibility to select a calibrated range of frequency measurement from 0 ... 100 Hz up to 0...28.8 kHz.

## INPUT TECHNICAL DATA

Input signal (range)	0...28.8 KHz adjustable via DIP switch
Input signal (type)	AC/DC 0.6...30 Vpp
Input resistance	50 K $\Omega$
Hysteresis	0.5 Vpp o 5 Vpp adjustable via DIP switch

## OUTPUT TECHNICAL DATA

Output signal	0...10 V, (max. 10.6 V)
Applicable load	0...20 / 4...20 mA, (max 21 mA)
Ripple	>1 K $\Omega$ with output voltage <400 $\Omega$ with output current < 5 mVeff

## GENERAL TECHNICAL DATA

Supply voltage	24 Vac/dc (1)
Rated current	20 mA
Accuracy	0.1 FS (23°C)
Linearity error	0.02%
Ripple	0.1%
Setting time (accuracy 1%)	200 ms
Temperature coefficient	70 ppm/K
Isolation	1.5 kVac / 60 s (2)
ECM standards	EN 61000-6-2, EN 61000-6-4
Reference Standard	IED 664-1, DIN VDE
Overvoltage category	III
Pollution degree	2
Protection degree	IP 20 IEC 529 EN60529
Operating temperature range	-25...+60°C
Connection terminal	1.5 mm <sup>2</sup> fixed screw type
Housing material	PPE
Peso approssimativo	70 g (2.47 oz)
Mounting information	vertical on rail adjacent without gap

## MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35-7.5	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
Mounting rail type according to IEC60715/G32	—
Plug-in jumper	red — white — blue —