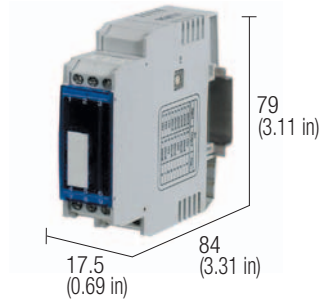


# Frequency signal converter

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

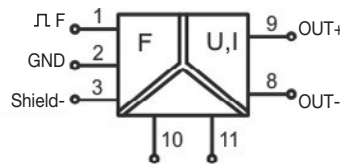


## NOTES

The dimensions includes the terminal blocks and the DIN clamp.

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

## BLOCK DIAGRAM



AC/DC 24V

## VERSIONS

Cat. No. X756524  
**CWNFA 6-0524**

## 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 kΩ
Hysteresis	0.5 Vpp or 5 Vpp adjustable via DIP switch

0...28.8 kHz adjustable via DIP switch
AC/DC 0.6...30 Vpp
50 kΩ
0.5 Vpp or 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) >1 kΩ with output voltage <400 Ω with output current
Ripple	< 5 mVeff

0...10 V, (max. 10.6 V)
0...20 / 4...20 mA, (max 21 mA) >1 kΩ with output voltage <400 Ω 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
Approx. weight	70 g (2.47 oz)
Mounting information	vertical on rail adjacent without gap

24 Vac/dc (1)
20 mA
0.1 FS (23°C)
0.02%
0.1%
200 ms
70 ppm/K
1.5 kVac / 60 s (2)
EN 61000-6-2, EN 61000-6-4
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IP 20 IEC 529 EN60529
-25...+60°C
1.5 mm <sup>2</sup> fixed screw type
PPE
70 g (2.47 oz)
vertical on rail adjacent without gap

## MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35-7.5	—
Mounting rail type according to IEC60715/G32	—
Plug-in jumper	red white blue

<b>PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB</b>	—
—	—
—	—
—	—

## APPLICATIONS

This module is used to convert a frequency signal, with either sinusoidal or square waveform, into a standard analogue 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.

S2 ● → Switch On														
Range*	1	2	3	4	5	6	8	Range*	1	2	3	4	5	6
0-100Hz	●	●	●	●	●	●	●	0-5kHz	●	●	●	●	●	●
0-200Hz	●	●	●	●	●	●	●	0-6kHz	●	●	●	●	●	●
0-250Hz	●	●	●	●	●	●	●	0-8kHz	●	●	●	●	●	●
0-400Hz	●	●	●	●	●	●	●	0-10kHz	●	●	●	●	●	●
0-500Hz	●	●	●	●	●	●	●	0-12kHz	●	●	●	●	●	●
0-750Hz	●	●	●	●	●	●	●	0-16kHz	●	●	●	●	●	●
0-1kHz	●	●	●	●	●	●	●	0-20kHz	●	●	●	●	●	●
0-1.5kHz	●	●	●	●	●	●	●	0-24kHz	●	●	●	●	●	●
0-2kHz	●	●	●	●	●	●	●	0-28.8kHz	●	●	●	●	●	●
0-2.5kHz	●	●	●	●	●	●	●							
0-3kHz	●	●	●	●	●	●	●							
0-4kHz	●	●	●	●	●	●	●							
Hysteresis								0.5Vpp						
								5Vpp	●					

● → Switch On		S1	
Output	1	2	3
0-10V	●		
0-20mA		●	
4-20mA			●