

Panel Meters and Controllers

Compact Transducer for Frequency Measurements

Type CVT-DIN F1/F2/F3



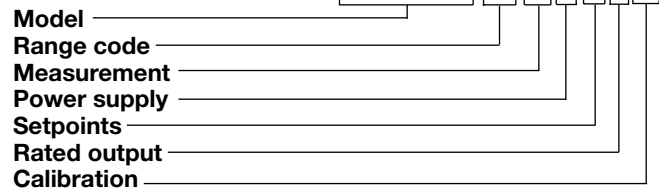
- For frequency measurement
- For DIN-rail mounting
- Degree of protection: IP 50

Product Description

Compact transducer for frequency measurements. The housing is for DIN-rail mounting and ensures a degree of protection of IP 50.

Ordering Key

CVT-DINF1AD01X



Type Selection

Range code	Power supply	Rated output	Calibration
F1: 45 to 55 Hz	A: 24 VAC, -15% +10%, 50/60 Hz ¹⁾	1: Analogue output 0 to 20 mA (standard)	X: Standard calibration
F2: 55 to 65 Hz	B: 48 VAC, -15% +10%, 50/60 Hz ¹⁾	2: Analogue output 4 to 20 mADC ¹⁾	Y: Special calibration, use "Y" followed by requested value
F3: 350 to 450 Hz	C: 115 VAC, -15% +10%, 50/60 Hz ¹⁾	3: Analogue output 0 to 10 VDC ¹⁾	
	D: 230 VAC, -15% +10%, 50/60 Hz (standard)	4: Analogue output 0 to ±1 VDC ¹⁾	

¹⁾ On request

Input Specifications

Accuracy (@ 23°C ± 5°C, R.H. ≤ 60%) Additional errors:	± 0.5% f.s., The given accuracy includes: voltage, power supply and output load influences
Humidity Magnetic field	< 0.3%, 60% to 90% R.H. < 1%, @400 A/m
Ripple	≤ 1% according to IEC 60688-1 and EN 60 688-1
Rated input Frequency ranges:	
F1	45 to 55 Hz (Imp. ≥ 10 kΩ)
F2	55 to 65 Hz (Imp. ≥ 10 kΩ)
F3	350 to 450 Hz (Imp. ≥ 10 kΩ)
Voltage range	90 to 450 V
Overload protection Continuous: voltage For 1 s: voltage	1.2 x rated input 2 x rated input

Output Specifications

Range/load	
0 to 20 mA	Load: ≤ 500 Ω
4 to 20 mA	Load: ≤ 500 Ω
0 to 10 V	Load: ≥ 10 kΩ
0 to ±1 V	Load: ≥ 10 kΩ
Response time	4 s typical
Temperature drift	200 ppm/°C

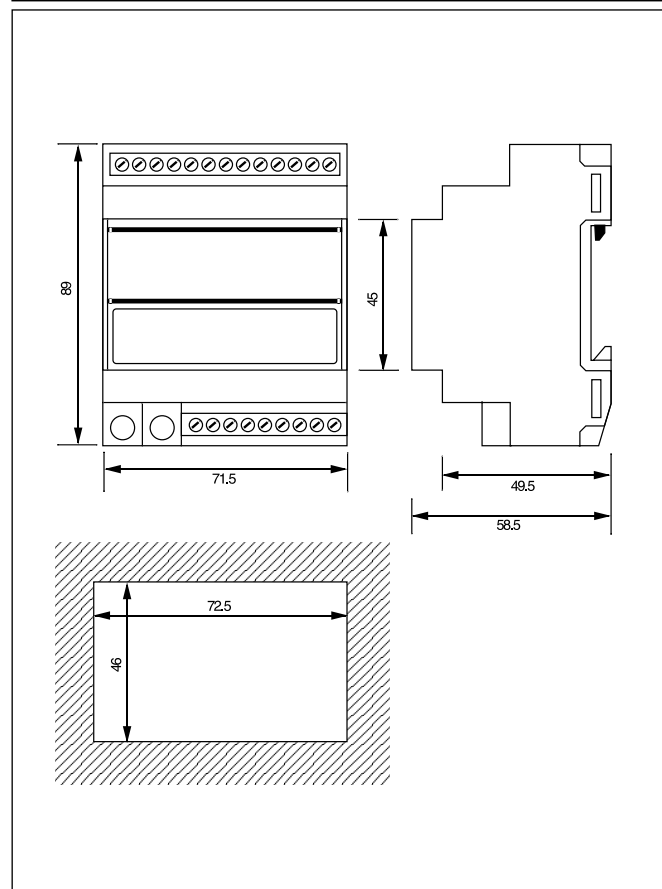
Supply Specifications

AC supply	230 VAC, -15% +10%, 50/60 Hz (standard) 24 VAC, 48 VAC, 115 VAC, 15% +10%, 50/60 Hz (on request)
Power consumption	≤ 3 VA

General Specifications

Warm-up time	15 minutes
Operating temperature	0 to 50°C (32 to 122°F) (R.H. < 90% non-condensing)
Storage temperature	-10 to 60°C (14 to 140°F) (R.H. < 90% non-condensing)
Insulation reference voltage	300 V _{rms} to ground
Insulation	2000 V _{rms} between output and measuring input, output and supply input. 4000 V _{rms} between input/output and ground
Dielectric strength	4000 V _{rms} for 1 minute
Noise rejection CMRR	≥ 80 dB
EMC	EN 50 081-1, EN 50 082-1
Safety standards Safety requirements Product requirements	IEC 61010-1, EN 61 010-1 IEC 60688-1, EN 60 688-1
Connector	Screw-type, max. 2.5 mm ² wires
Housing Dimensions Material	4-DIN modules, 58.5 x 89 x 71.5 mm ABS, self-extinguishing: UL 94 V-0
Degree of protection	IP 50
Weight	Approx. 300 g (packing included)
Approval	CE

Dimensions



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