

## Product Information

# Frequency Analog Transmitter FT500



- Frequency ranges from 0..0.01Hz/20 kHz programmable
- start- and end value of the measuring range programmable
- Multipurpose inputs for 24 V sensors, switching contacts and Namur actors
- Integrated transmitter supply

## Characteristics

Frequency transmitter FT 500 are used to convert an impulse frequency range into industry standard signals. The transmitter accepts impulses from proximity switch, contact switch, light barriers and Namur proximity switches. Start- and end value will be programmed with 5 rotary switches. Increasing or decreasing output characteristic is therefore programmable.

## Technical data

### Power supply

Supply voltage : 85..265 V AC or 10..30 V AC / DC  
Frequency : 47..63 Hz  
Power consumption : < 4 VA  
Operating temperature : -10..+60 °C  
CE- conformity : EN 61326-1:2013; EN 60664-1:2007

### Input

Frequency range : 0..0.01 Hz/20 kHz  
Pulse cycle : min. 20 µs (electronic) and min. 5 ms (contacts)

Start value : programmable 0..25 %  
End value : programmable -15..+ 5 %

Impulse input (Terminals 2, 3) : low- signal -30 V..+3 V, high- signal +10 V..+35 V  
Ri : > 10 kΩ

Transmitter supply (Terminal 1) : approx. 20 V DC, 25 mA short circuit current

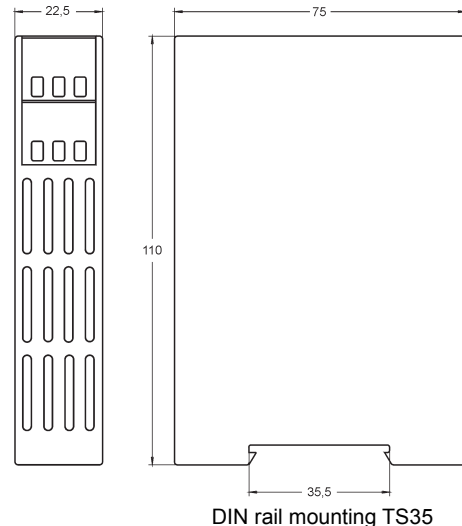
Namur input (Terminals 4, 5) : acc. to DIN 19234, Namur  
Ri : approx. 1 kΩ

### Output

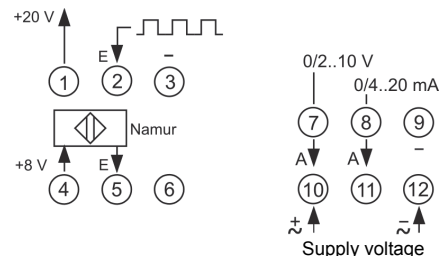
Current : 0/4..20 mA selectable, burden ≤ 1 kΩ  
Voltage : 0/2..10 V DC, load max. 10 mA, short-circuit-proof (parallel with current output, 5 mA)  
Accuracy : 0.1 % Measuring end value  
Rise time (T<sub>90</sub>) : < 130 ms

Case : Polycarbonate, UL94V-0  
TS 35 acc. to DIN EN 60715:2001-09  
Weight : approx. 140 g  
Connection : screw terminals, max. 2.5 mm<sup>2</sup>  
Protection class : case IP30, terminals IP20, acc. to BGV A3

## Dimensions



## Connection diagram



## Ordering code

FT500 - 1. - 2. - 3.

| 1. Measuring range |                                                            |
|--------------------|------------------------------------------------------------|
| 70                 | 0..0.01Hz up to 20 kHz, output 0/4..20 mA and 0/2..10 V DC |
| 2. Supply voltage  |                                                            |
| 0                  | 85..265 V AC                                               |
| 5                  | 10..30 V AC / DC                                           |
| 3. Options         |                                                            |
| 00                 | without option                                             |