

■ Frequency Divider FT 9003

Highlights

- Input Frequency up to 2 MHz
- Adjustable Divider from 2 to 510
- Additional Divider 1, 2, 4, 8 and 16
- Different Input Voltage Levels adjustable
- Isolated Output
- Low Power Consumption

General

The unit **FT 9003** is used for dividing input frequencies up to 2 Mhz by a user adjustable frequency divider. The maximum output frequency is 25 kHz. There is one input channels provided. The input channel is optically isolated from the internal circuitry. By this way disturbances by a noisy environment are reduced. One output channel is provided. The output channel has an open collector configuration.

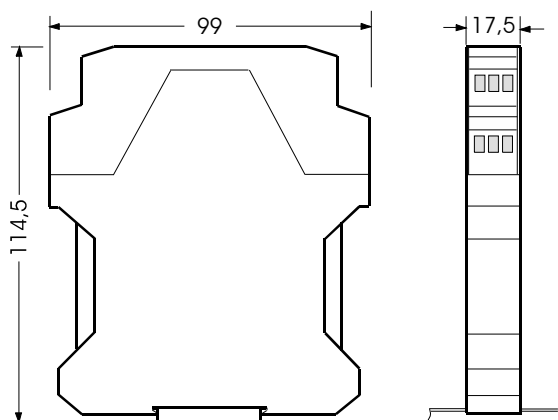
Isolated Digital Input

Configuration of the input channel:

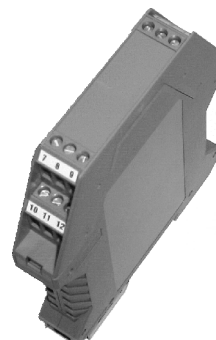
- Input voltage: 5V, 12V, 24V and (optional) 48V (adjustable)
- Tolerance: a logical "0" will be recognized up to 20 % max. of the nominal input level. (e.g. up to 4,8V at an input level of 24V)
A logical "1" will be recognized at +/- 20% of the nominal input level. (e.g. from 19,2V min. to 28,8V max. at an input level of 24V)
- Input current: 5 mA
- Input frequency: max. 2 MHz

Isolated Output

As output channel there is a collector-emitter path of an opto-coupler provided. The transistor can switch up to 30 V/ 50 mA. The output channel is protected against overvoltage and spikes. The maximum output frequency is 25 kHz.



Dimensions



Construction

The unit **FT 9003** is provided for DIN-rail mounting according to EN 50022.

Power Supply

The unit is designed for a power supply from 18 to 36VDC (standard design).

Specifications

Input channel	
Input voltage level	: 5V, 12V, 24V & (optional) 48V
Input current per channel	: 5 mA source current
Input Frequency	: max. 2 MHz
Tolerances of the input channel	: +/-20% of the nominal input
Divider 1	: 8-pole DIP switch
	: adjustable divisor 2 ... 510
Divider 2	: 5 Jumper,
	: adjustable divisor 1/2/4/8/16
Output channel	: isolated
Voltage	: max. 30 V
Current	: max. 50 mA
Frequency	: max. 25 kHz
Power supply	: 18 V...32 V DC
Current	: max. 80 mA (18 VDC)
Construction	
CE	: 2014/30/EU, 2014/35/EU, 2011/65/EU+2015/863
Protection	: IP40
Mounting	: EN 50022
Operating temperature	: -5 to +55 °C
Dimensions	: 99 x 114,5 x 17,5

Ordering Information

FT 9003-			
			Special model
			0 standard
			1 reserved
			Input voltage
			0 standard
			1 48 V
			2 reserved
			3 reserved
			Power supply
			0 18 ... 36 V DC, (Standard)
			1 4,5 ... 9 V DC, (Option)
			2 9 ... 18 V DC, (Option)
			3 36 ... 48 V DC, (Option)