

FT 7.□□

FT 7.□□ Frequency Divider

Features:

Top hat rail housing

impulse division

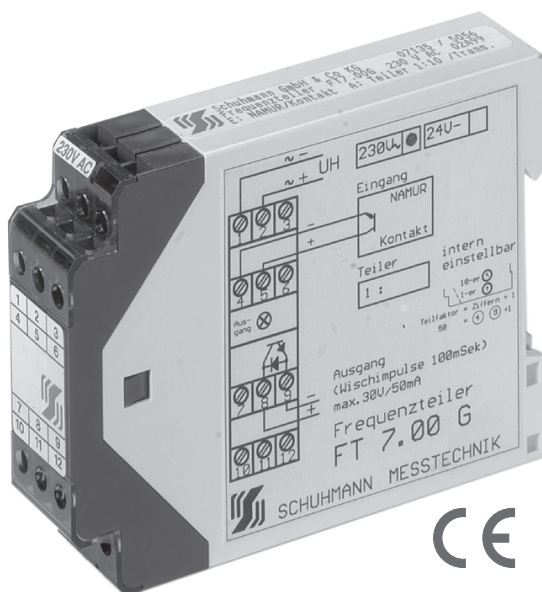
adjustable divide ratio

maximum input frequency
500 Hz or < 10 kHz

control contact and two-wire
initiator according to EN
(optionally)

galvanical isolation between
measuring and supply circuits

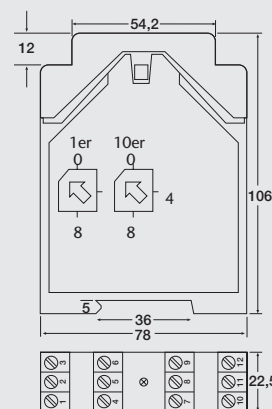
supply voltage 230 V AC or
24 V DC possible

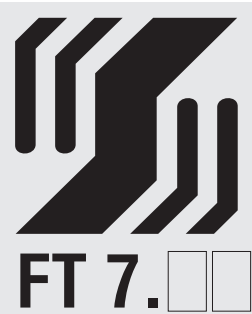


Application:

The Frequency Divider FT 7.□□ is designed to convert digital pulses. The impulse conversion is used for different applications, e.g. indication of quantity, determination of number of pieces, event counting, time-pulse metering, conversion of a too high frequency for a PLC-input, conversion of consumption value of current, water, etc.

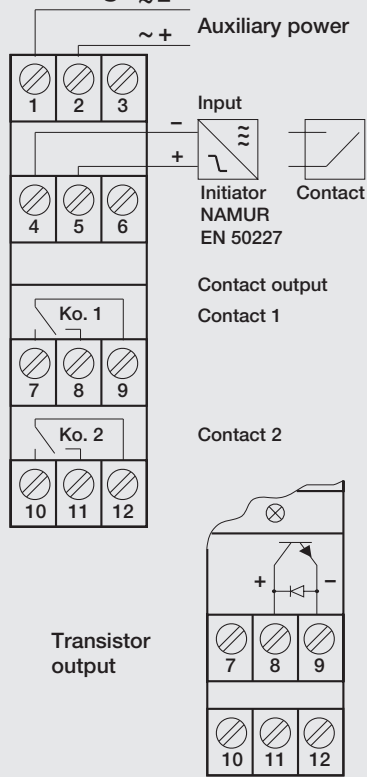
The following input signals can be processed:
two-wire initiators according to DIN 19234 (Namur) or potential-free contact. The input and output circuits are galvanically isolated among each other and from the auxiliary power.





FT 7.00

Housing



Output:

Adjustment of division: division factor adjustable via 2 turn-switches
Division factor: adjusted number + 1

decadic version			binary version		
10-er	1 switch	division factor	10 switch	1	division factor
4	9	50	7	F	128
9	9	100	F	F	256

Other division factors optional on request.

Potential-free change-over contacts:

Contact duty: max. 250 VA, 1 A AC
48V DC, 0,5 A DC

Switching capacity: 60 VA

Pulse duration: $\leq 0,5$ sec.

Contact lifetime: 10^5 cycles (1 A)

Mechanical lifetime: $> 10^7$ cycles

Transistor output (alternatively)

Pulse duration: $\leq 0,1$ sec.

max. 40Hz, max. 50V, max. 50mA

Type FT 7.10: max. 12kHz, max. 50V, max. 50mA

Input:

Input current circuit according to Namur DIN 19234 or potential-free contact

Maximum voltage: $U_0 = 8V$

Maximum current: $I_{max} = 8mA$

Minimum pulse duration: 4 ms

Special inputs on request.

Auxiliary power:

AC voltage: 230V (200...250V) AC
(50...60Hz)

power consumption
approx. 10mA

DC voltage: 24V DC (20...30V)

power consumption
approx. 50mA

Special voltage on request.

Electromagnetic compatibility law

Germany in accordance with
EMC Directive: 2004/18/EG*
Low-Voltage Directive: 2006/95/EG

Environmental conditions:

Storage temperature: $-40...+70^{\circ}C$

Working temperature: $0...55^{\circ}C$

Isolation voltage: > 1 kV input-output
 > 4 kV auxiliary voltage AC
 $> 500V$ auxiliary voltage DC
optional > 4 kV DC

Mounting details:

Housing for top hat rail

Type of protection: IP 40 housing/IP 10 clamps

Width: 22,5 mm

Rail-mounting fixed according to
EN 50022-35 x 7,5mm

Weight: 170 g

For safety reasons we recommend to mount
the top hat rail housing with a distance of
approx. 5 mm to each other.

Ordering information:

Type: FT 7.01 G contact output

FT 7.00 G transistor output

FT 7.10 G transistor output
 $> 500Hz$ input

Auxiliary power: in clear text (e.g. 230V AC)

* minimum deviations possible during HF-radiation influence