

## ■ Programmable Totalizing Counter Model CF 3011

### Highlights

- LED Display 14 mm, 5 decades
- DIN Housing 96 x 48 mm
- Switchboard- or Mosaic System Mounting
- Isolated Power Supply
- Plug-In Screw Terminal
- Limit Value Output (Optocoupler)

### Standard functions

#### Modes

- Time meter with start and stop-input
- Pulse counter with direction-input
- Cycle duration measurement
- Pulse duration measurement
- Frequency measurement up to 10 kHz
- Revolution per minute
- Hour meter
- Tachometer in m/s or km/h

#### Software functions

- Scaling factor 0,001 .. 10,000
- Offset value for count mode
- Count frequency 25 Hz, 7 kHz programmable
- Programmable decimal point
- Autoranging
- Last digit in 1, 2, 5 or 10 steps
- Display test
- Limiting value functions

#### Digital input channels

The instrument is provided with four digital input channels. The input channels are low active. The digital input channels are carried out following functions:

- Programming
- Display test

#### Limiting value output (optocouple)

The instrument is provided with a optocouple output for limiting value indication. Following functions can be programmed:

- Alarm point and hysteresis
- High or low alarm



#### Power supply

- 18 .. 36 V DC isolated
- optional 12 V DC isolated
- optional 5 V DC isolated

#### Programming

The programming is easy and clearly arranged. By means of a programming menu the user is taken through this programming. The programming is carried out through the digital input channels.

#### Options

##### Housing

- Switch board mounting DIN 43700
- Mosaic system mounting (Subklev, Siemens 8RU)

##### Colour of the front frame

- Black

##### Design of the front

- Without front foil
- Front foil ERMA-METER
- Front foil NEUTRAL
- Unit overprint

##### Display colour

- Red
- Green

**Technical data**

Display : 5 decades, 14 mm, red (opt. green)  
 Display range : -9999 .. 99999

Measuring ranges:  
 Time meter : 10 ms .. 9999,9 s  
 Pulse counter f<sub>max</sub> : 25 Hz, 7 kHz programmable  
 Cycle duration : 10 ms .. 9999,9 s  
 Pulse duration : 10 ms .. 9999,9 s  
 Frequency : 0,6 Hz .. 9,999 kHz  
 Revolution : 42 .. 9999 U/min  
 Hour meter : 0,02 h .. 9999,9 h  
 Tochrometer:  
 Resolution : 0,01 m/s or 0,1 km/h  
 Distance : 1 m fix or variable

Digital input channels  
 Low level : < 0,4 V  
 High level : > 3,5 V, max. 30 V  
 Input resistance:  
 Input 3-6 : 10 kΩ to +5V  
 Input 7 : 10 kΩ to GND

Limit value output : optocoupler  
 : max. 10 mA, 70 V, max. 150 mW

Power supply DC : 18 V to 36 V DC, isolated  
 optional : 12 V DC, ± 10 %, isolated  
 optional : 5 V DC, ± 10 %, isolated

Power consumption : approx. 65 mA (red)  
 (18 .. 36 V DC) : approx. 75 mA (green)

Housing : switch board mounting DIN 43700  
 Dimensions : 96 x 48 x 63,5 mm  
 Depth : < 72 mm incl. screw terminal  
 Protection : front IP 40

EMV : in conform with 89/336/EWG  
 Operating temperature : 0 .. 50 °C

**Ordering information**

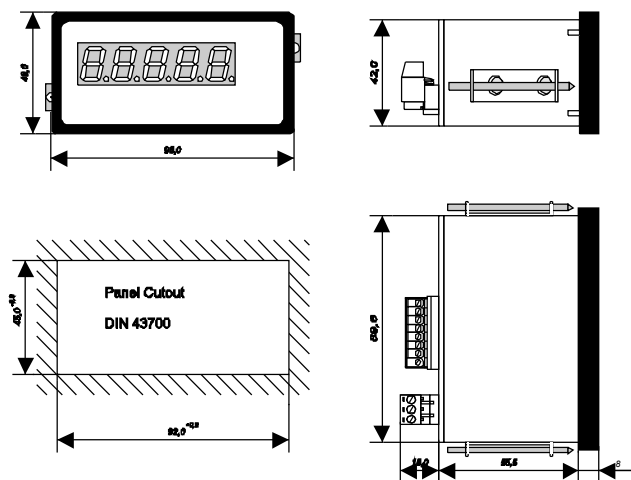
<b>CF 3011 -</b>	
	<b>Housing</b>
0	Switch board mount
1	Panel clip
<b>Front frame colour</b>	
0	Black
<b>Front design</b>	
0	Without front foil
1	Front foil ERMA-METER
2	Front foil NEUTRAL
<b>Display colour</b>	
0	Red
1	Green
<b>Power supply</b>	
0	5 V DC, ± 10%, isolated
1	12 V DC, ± 10 %, isolated
2	18 .. 36 V DC, isolated

**Unit overprint**

Please specify in clear text at order !

**Dimensions**

**Switch board mounting**



**Panel clip**

