



IVO IRION & VOSSELER  
 ZÄHLERFABRIK GMBH & CO.  
 P.O. BOX 3360  
 D-7730 VS-SCHWENNINGEN  
 GERMANY  
 TELEPHONE: (077 20) 699-1  
 TELEX: 7 94 560 ivo d  
 TELETEX: 772016 = IVOVS  
 TELEFAX: 699-212

## Product Information

**Electromechanical Counters  
 without reset**  
**F 103, F 123, F 163, F 173**  
 - for DC or AC -

**F 103**  
 4.85

### Description

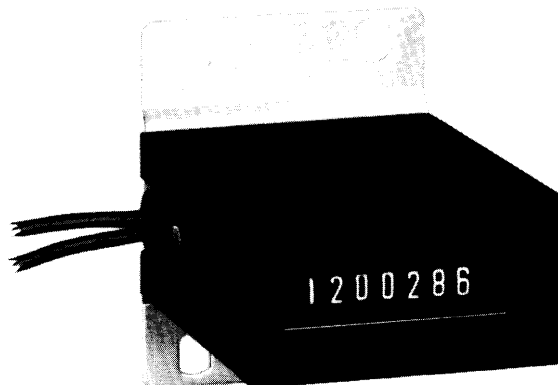
This counter is designed to operate from DC or AC without the use of a rectifier. It also incorporates an anti-shock device to prevent miscounting.

### Applications:

Include all forms of gaming machines, copying machines etc.

### Ordering information

1. Type No. (e. g. F 103.003)
  2. DC or AC and voltage
  3. Frequency for AC
- Accessories
  - Specials



**Base-plate mounting F 163**

### Versions

Fixing	Front dimensions Width x Height	Figures	Shockproofing	Type No.
Rear screw mounting	50 x 25 mm	7	without	<b>F 103.001</b>
		7	with	<b>F 103.003</b>
		6	without	<b>F 103.005</b>
		6	with	<b>F 103.007</b>
Front panel for spring clip	53,2 x 28,2 mm	7	without	<b>F 123.001</b>
		7	with	<b>F 123.003</b>
		6	without	<b>F 123.005</b>
		6	with	<b>F 123.007</b>
Base-plate mounting	50 x 25 mm	7	without	<b>F 163.001</b>
		7	with	<b>F 163.003</b>
		6	without	<b>F 163.005</b>
		6	with	<b>F 163.007</b>
Front panel for screw fixing	60 x 50 mm	7	without	<b>F 173.001</b>
		7	with	<b>F 173.003</b>
		6	without	<b>F 173.005</b>
		6	with	<b>F 173.007</b>

### Technical data

<b>Operation</b>	Electromagnetic impulse drive
<b>Method of counting</b>	One pulse adds one unit in two half-steps
<b>Counting range</b>	6 digits, 999 999 7 digits, 9 999 999
<b>Counter reading on delivery</b>	500 before 0
<b>Figures</b>	4 mm high, white on black
<b>Electrical connection</b>	By flying leads 300 mm long. For voltages above 42 V the counter case has to be earthed by means of the screw provided.

<b>Protection mode</b>	IP 51 DIN 40050
<b>Test voltage</b>	According to VDE 0660 § 65
<b>Ambient temperature</b>	- 5° C . . + 50° C
<b>Life expectancy</b>	Aprx. 50 million operations
<b>Case</b>	Metal base plate with a matt black plastic cover.
<b>Weight</b>	Approx. 150 g
<b>Accessories</b>	Mounting rail for F 103. Standard length 300 mm. Part No. 080.00.082



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### Description

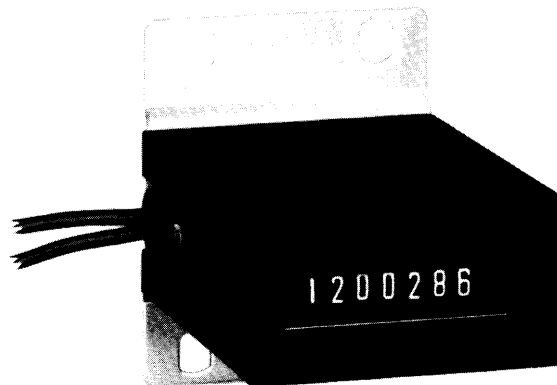
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Include all forms of gaming machines, copying machines etc.

### Ordering information

1. Type No. (e. g. F 103.003)
  2. DC or AC and voltage
  3. Frequency for AC
- Accessories
  - Specials



**Base-plate mounting F 163**

### Versions

Fixing	Front dimensions Width x Height	Figures	Shockproofing	Type No.
Rear screw mounting	50 x 25 mm	7	without	<b>F 103.001</b>
		7	with	<b>F 103.003</b>
		6	without	<b>F 103.005</b>
		6	with	<b>F 103.007</b>
Front panel for spring clip	53,2 x 28,2 mm	7	without	<b>F 123.001</b>
		7	with	<b>F 123.003</b>
		6	without	<b>F 123.005</b>
		6	with	<b>F 123.007</b>
Base-plate mounting	50 x 25 mm	7	without	<b>F 163.001</b>
		7	with	<b>F 163.003</b>
		6	without	<b>F 163.005</b>
		6	with	<b>F 163.007</b>
Front panel for screw fixing	60 x 50 mm	7	without	<b>F 173.001</b>
		7	with	<b>F 173.003</b>
		6	without	<b>F 173.005</b>
		6	with	<b>F 173.007</b>

### Technical data

<b>Operation</b>	Electromagnetic impulse drive	<b>Protection mode</b>	IP 51 DIN 40050
<b>Method of counting</b>	One pulse adds one unit in two half-steps	<b>Test voltage</b>	According to VDE 0660 § 65
<b>Counting range</b>	6 digits, 999 999 7 digits, 9 999 999	<b>Ambient temperature</b>	- 5° C . . + 50° C
<b>Counter reading on delivery</b>	500 before 0	<b>Life expectancy</b>	Appr. 50 million operations
<b>Figures</b>	4 mm high, white on black	<b>Case</b>	Metal base plate with a matt black plastic cover.
<b>Electrical connection</b>	By flying leads 300 mm long. For voltages above 42 V the counter case has to be earthed by means of the screw provided.	<b>Weight</b>	Approx. 150 g
		<b>Accessories</b>	Mounting rail for F 103. Standard length 300 mm. Part No. 080.00.082

## Electrical data

Max. impuls rate	Voltage $\pm 10\%$	Ripple factor/frequency	Power consumption	Min. On-time	Min. Off-time	Mark space ratio	Duty cycle at 25°C
10 i.p.s.	6 VDC 12 VDC 24 VDC 48 VDC	$\leq 48\%$	2 W	50 ms	50 ms	1 : 1	100 %
10 i.p.s.	24 VAC 110/115 VAC 220 VAC	50 or 60 Hz	5 VA, initially for a short period 7 VA	50 ms	50 ms	1 : 1	100 %

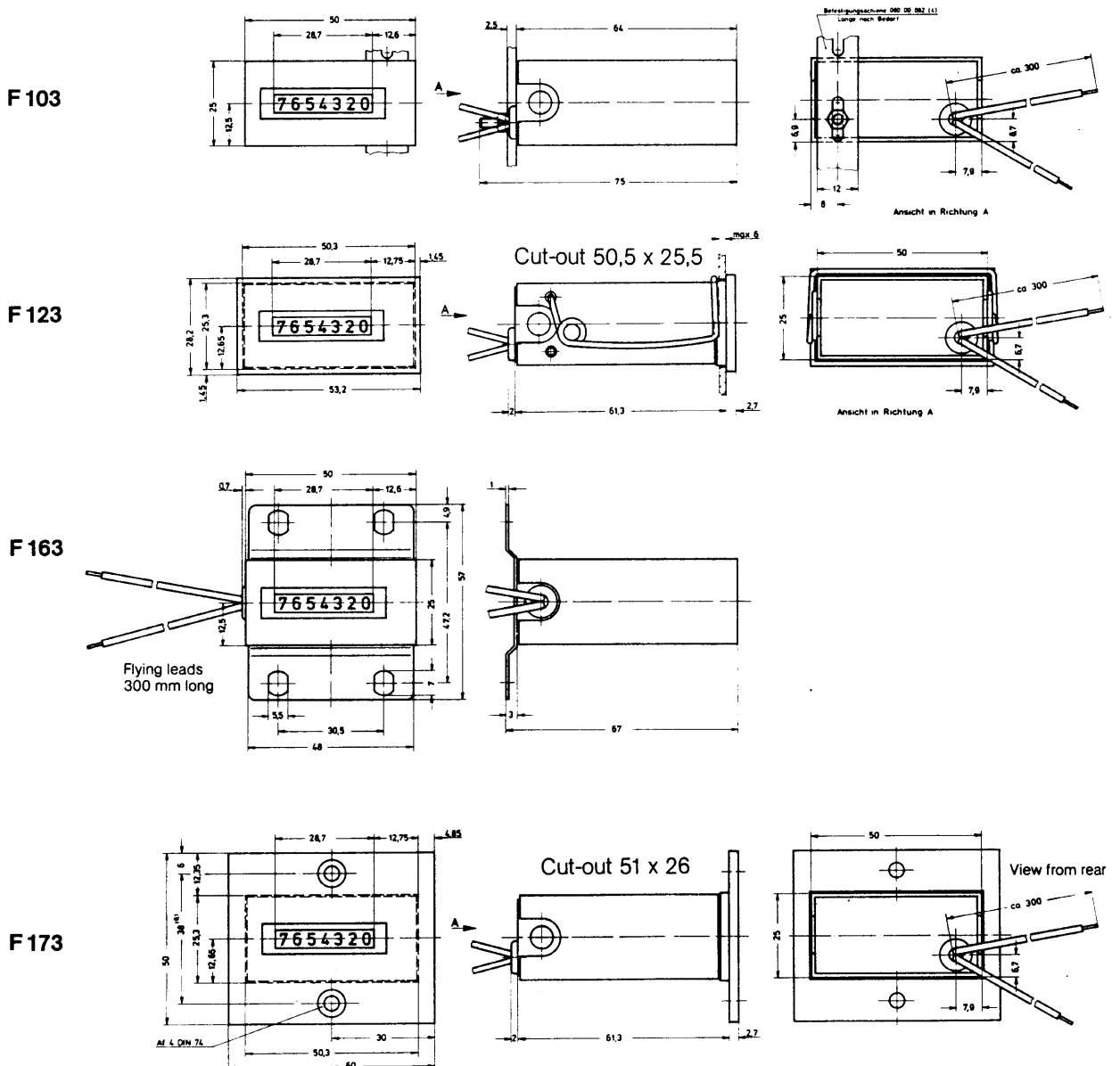
## Special versions

1. With non-standard counter reading on delivery
2. Fixing bracket for DIN assembly rail

## Note:

Also available as model F 183 with coded receptacle for use with copying machines.

## Dimensions



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