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Product Information

Modular Totalising Counter Series F 504 . . . with manual reset

F 504
5.88

The modular series 500 features totalizing counters 50 x 25 mm and adding predetermined counters 50 x 50 mm. The counters can be combined not only among one another, some of them can also be used in conjunction with our electronic counters and auxiliary modules. This enables the user to make up combinations for different counting and control functions.

Specifications

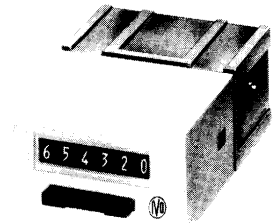
Method of fixing	Front dimensions width x height	Figures	Reset	Model and Ref. No.
Plug-in with socket box	50 x 25 mm	5	Key	F 504.54
		5	Manual	F 504.55
		6	Without	F 504.60
		6	Key	F 504.64
		6	Manual	F 504.65
Panel / socket combination or panel frame available as an accessory	60 x 37,5 mm	8	Without	F 504.80
		5	Key	F 514.54
		5	Manual	F 514.55
Front panel for screw fixing	60 x 37,5 mm	6	Without	F 514.60
		6	Key	F 514.64
		6	Manual	F 514.65
		6	Key	F 518.54
		5	Manual	F 518.55
Front panel for screw fixing	66,5 x 37 mm	6	Without	F 518.60
		6	Key	F 518.64
		6	Manual	F 518.65
		8	Without	F 518.80
		5	Key	F 524.54
Spring clip fixing	53,2 x 28,2 mm	5	Manual	F 524.55
		6	Without	F 524.60
		6	Key	F 524.64
		6	Manual	F 524.65
		8	Without	F 524.80
Spring clip fixing	60 x 37,5 mm	5	Key	F 544.54
		5	Manual	F 544.55
		6	Without	F 544.60
		6	Key	F 544.64
		6	Manual	F 544.65
Front panel for screw fixing	60 x 50 mm	5	Key	F 574.54
		5	Manual	F 574.55
		6	Without	F 574.60
		6	Key	F 574.64
		6	Manual	F 574.65

Ordering information

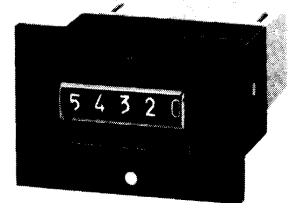
1. Type number (e. g. F 544.65)
 2. Voltage DC or AC
- If required:
 - Optional features
 - Accessories

Attention:

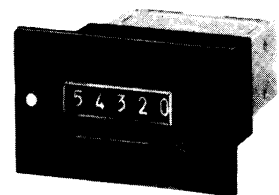
If F 504 counters (in socket boxes) are to be mounted together with preselection counters FE 504 (in socket boxes) in a common front panel or in counter fields on common mounting rails, this must be indicated when ordering. In this case F 504 counters will be supplied ex works together with suitable foreign socket boxes "H".



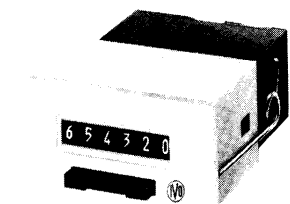
F 504 Plug-in with socket box



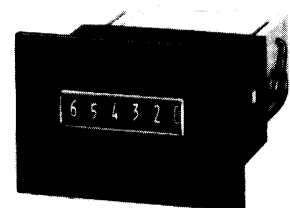
F 514 Front panel for screw fixing



F 518 Front panel for screw fixing



F 524 Front panel for spring clip



F 544 Front panel for spring clip

Technical data

Method of counting	1 impulse adds 1 unit in two half-steps
Figures	Approx. 4.5 mm high, white on black

Resetting

By means of pushbutton with toggle action to prevent accidental resetting.
Variation: Key reset by means of a special key.
Counters with no reset have no reset button.

Method of Fixing

F 504 Plug-in with socket box or panel/ socket combination or with socket box and mounting bar.
Front fixing by means of panel frame.
Rear mounting by means of mounting bar.

F 514, F 518 Panel mounting with screw fixing.

F 574 Panel mounting with screw fixing.

F 524, F 544 Fixed by means of a spring clip for fitting into panels with a maximum thickness of 6 mm.

Service-free life

DC Voltage appr. 10^8 impulse
AC Voltage appr. 5×10^7 impulse

Protection mode to DIN 40050

From front (when fitted):
Without reset IP 65
with reset IP 41
with flexible clear plastic cover IP 55 (see accessories)

Ambient temperature $0^\circ \dots + 45^\circ \text{C}$

Case High-grade plastic material

Colour

F 504, F 524 Cover light grey plastic
F 514, F 518, F 544, F 574 Front panel black plastic

Weight 100 g/ 3.17 ozs. approx.

Connections

Counter supplied with socket box or panel/ socket combination:

Flat rectangular contact pins 0.8 x 2.8 mm suitable for soldering or for push-on connectors.

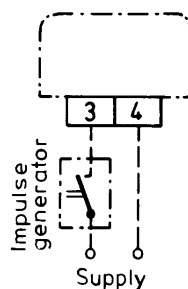
Counters without socket box:

Push-on connectors for soldering are supplied with the counter.

Electrical specification

Counting speed max.	Voltage $\pm 10\%$	Ripple factor resp. frequency	Power rating approx.	Min. On-time	Min. Off-time	Mark space ratio	Duty cycle at 25°C
20 i.p.s.	6 VDC 12 VDC 24 VDC 48 VDC	$\leq 48\%$	2 W	25 ms	25 ms	1 : 1	100%
10 i.p.s.	24 VAC 110 VAC 220 VAC	50 ... 60 Hz	3 VA	50 ms	50 ms	1 : 1	100%

Connection diagram



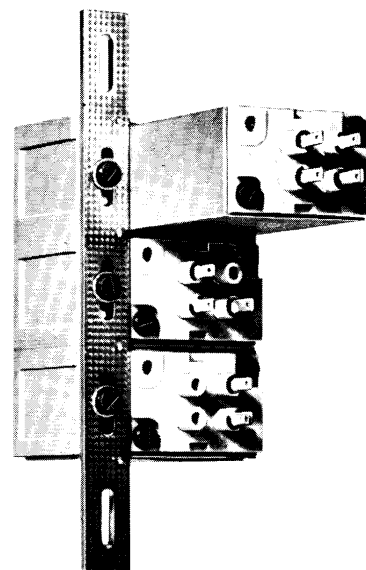
Accessories (see product group Z)

- Plastic panel/ socket combination** for plug-in counters.
- Mounting bars** for combining counter squares and stacking in both planes.
- Soft plastic transparent front cover** to protect the counter against dust and water. Only available for model F 504 with panel frame, or model F 574 or for panel/ socket combination.
- Panel frame** to accept plug-in counters with socket box.

Order options

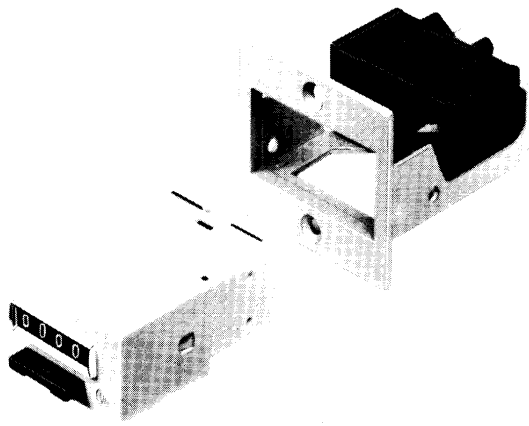
(To be specified when ordering)

- Red or yellow figures for decimal indication.
- First wheel with white or red numerals 0-2-4-6-8 etc.
- First wheel with white or red numerals 0-5-0-5 etc.

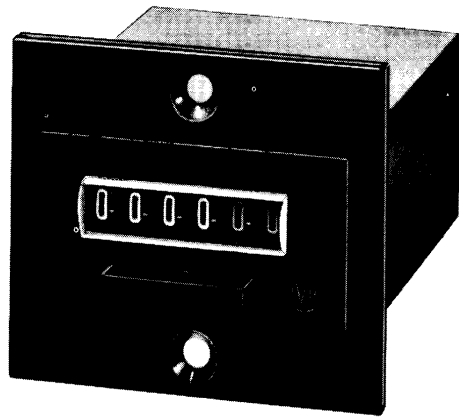


Bar Fixing:

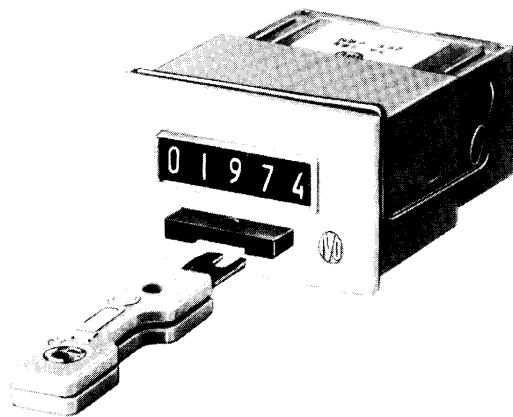
For mounting many counters from the rear with the aid of socket box connections, a standard bar for screw fixing can be supplied 300 mm long. (See accessories product information Z.)



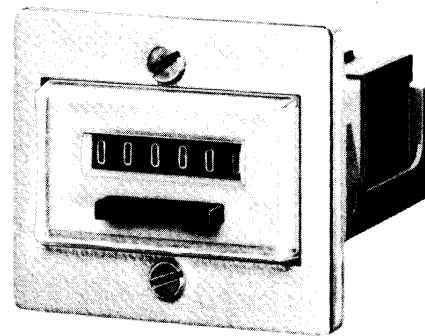
F 504
 Plug-in counter with socket box in a panel frame for single mounting.



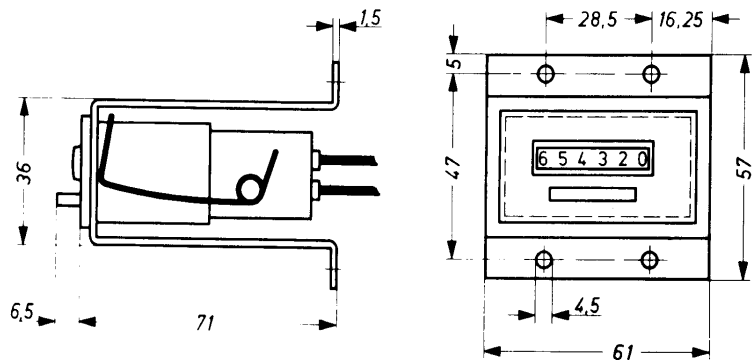
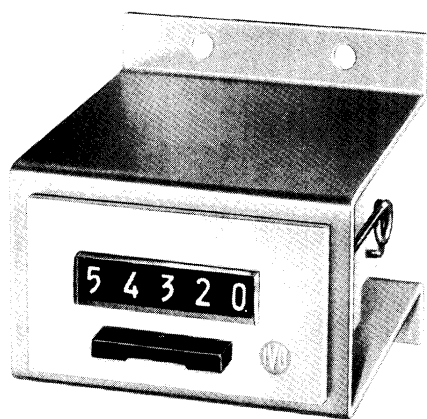
F 504
 Plug-in counter in a plastic panel/ socket combination for single mounting.



F 524.54 with key reset
 The pushbutton is locked and only released by the use of a special key supplied with the counter.



F 504
 Plug-in counter with socket box in a panel frame. With soft plastic transparent front cover to protect the counter against dust and water.

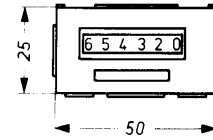
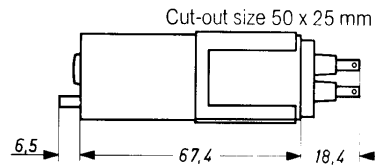


F 524.55 A with flange for base mounting
 Electrical connection with: leads 300 mm long.
 Other technical data as for F 524.

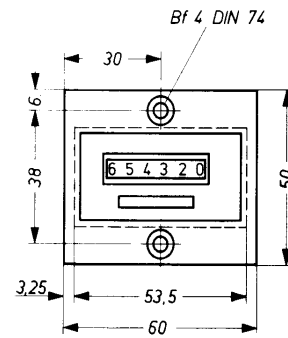
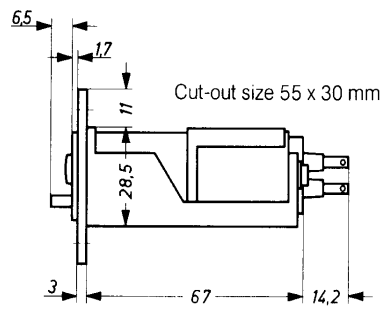
ATTENTION:
 When using the counter, relevant safety precautions must be applied. Always turn off mains power supply during installation.

Dimensions

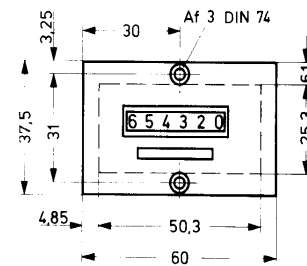
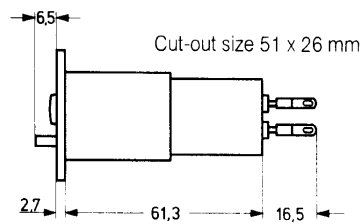
F 504
with socket box



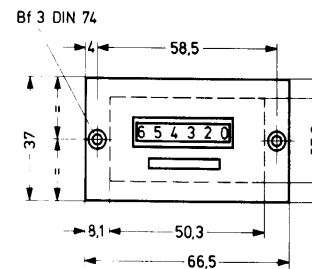
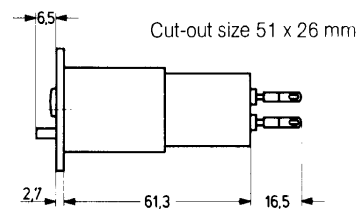
F 504
with panel frame and
socket box



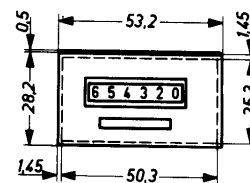
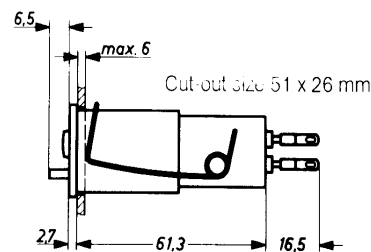
F 514



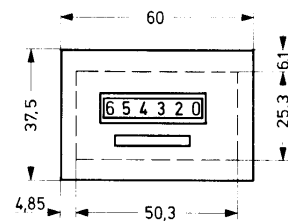
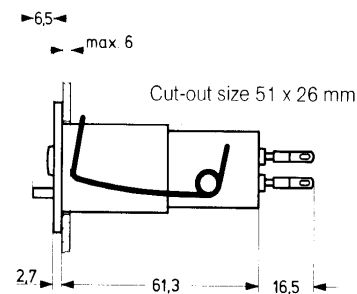
F 518



F 524
Spring clip mounting
without socket box.
Fixing requires no drilling
or screws.



F 544



F 574

