



FE504 to be plugged in and lined up within housing



FE514 with screw fixture



FE524 with clamping fixture

Electro-mechanical Preselection Counters with one Preset and Manual Reset

Order designations

Standard voltages

B3	24 VDC
B5	24 VAC
B8	110 VAC
B9	230 VAC

Front dimensions 50 x 50 mm
To be plugged in and lined up within housing

FE504.640B	☐ ☐ C	With key reset, 6-digit display
FE504.650B	☐ ☐ C	With reset button, 6-digit display

Front dimensions 60 x 75 mm
Mounting of front plate by means of two screws

FE514.640A	☐ ☐ C	With key reset, 6-digit display
FE514.650A	☐ ☐ C	With reset button, 6-digit display

Front dimensions 53.2 x 53.2 mm
Mounting by means of clamp. spring

FE524.640B	☐ ☐ C	With key reset, 6-digit display
FE524.650B	☐ ☐ C	With reset button, 6-digit display

Mechanical data

Display	6-digit, 999 999
Digit size	Approx. 4.5 mm high, white on black background
Reset	Manual push button or reset
Counting	1 pulse = 1 digit added in two half-steps
Housing material	Plastic, black front plate
Weight	Approx. 160 g
Life cycle	DC: approx. 10^8 pulses AC: approx. 5×10^7 pulses
Output contact	The integrated switch is a commercial microswitch with a one-pin change-over contact. Mechanical life cycle: approx. one million switch operations, electrical life cycle dependent on load. In the case of an inductive load, spark suppression should be incorporated.

FE504, FE514, FE524

Electrical data

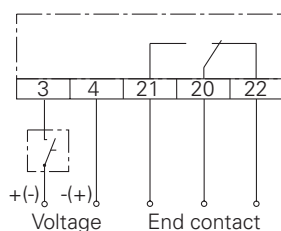
	Maximum counting speed	
	20 pulses/s	10 pulses/s
Voltage	24 VDC $\pm 10\%$	24 VAC $\pm 10\%$ 110 VAC $\pm 10\%$ 230 VAC $+6/-10\%$
Residual ripple / Frequency	$\leq 48\%$	50...60 Hz
Rating	2 W	3 VA
Min. pulse duration	25 ms	50 ms
Min. pulse interval	25 ms	50 ms
Load factor at 25 °C	100 %	100 %

Contact load	DC: max. 30 W, 230 V, 1 A AC: max. 100 VA, 230 V, 2 A
E-connection	Push-in housing: Solder terminal or terminal contacts on silver-plated tab connectors 0.8 x 2.8 mm Without push-in housing: Contact pins $\varnothing 1.5$ mm, solder terminal on push-on silver-plated contact lugs

Ambient conditions

Ambient temperature	0...+45 °C
Storage temperature	-20...+70 °C
Relative humidity	Max. relative humidity 80 %, at 25 °C, non-condensing
Protection	IP 41 for front side per DIN 40050
Operational requirements	To contamination degree 2
Classification	EN 61010, Category II
Interference immunity	EN 50082-2 Severity grade 2 - 3
Emitted interference	EN 50081-2
General rating	EN 61010
Overvoltage protection	II

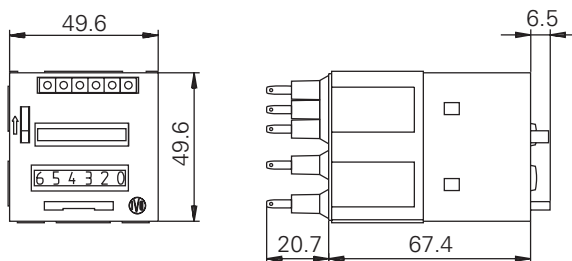
Pin assignment



Dimensions and cutout sizes

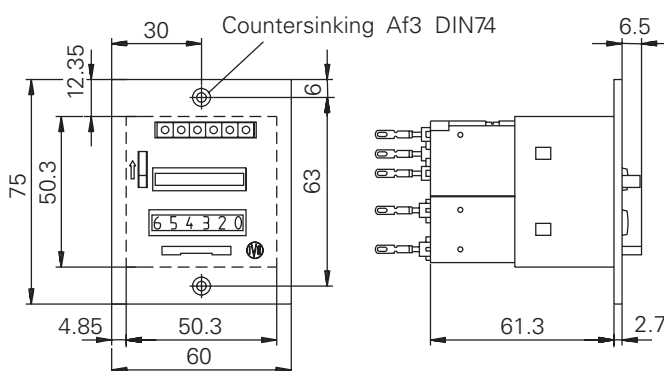
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Cutout 50 x 50 mm



FE514 with screw fixture

Cutout 51 x 51 mm



FE524 with clamping fixture

Cutout 51 x 51 mm

