



FE 309 to be plugged in and lined up within housing



FE 319 with screw fixture



FE 329 with clamping fixture

Electro-mechanical Presel- ection Counters with 1 Preset

Order designations

Standard voltages

A3	24 VDC
A5	24 VAC
A8	110 VAC
A9	220 VAC

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

FE 309.550A ☐ ☐ **B** With reset button and electric reset, 5-digit display

Front dimensions 60 x 75 mm
Fastening of front plate by means of 2 screws

FE 319.550A ☐ ☐ **B** With reset button and electric reset, 5-digit display

Frontmaß 53.2 x 53.2 mm
Fastening by means of clamping spring

FE 329.550A ☐ ☐ **B** With reset button and electric reset, 5-digit display

Mechanical data

Display	5-digit, 99 999
Digit size	Counting: approx. 4.5 mm high, white on black background Presetting: approx. 3.5 mm high, yellow on black background
Reset	Manual push button or electric
Counting	1 pulse = 1 digit added in two half-steps
Housing material	Plastic, black front plate
Weight	Approx. 230 g
Life cycle	Counting: approx. 10 ⁸ pulses Electric reset: approx. 10 ⁶ pulses
Output contact	The integrated switch is a commercial microswitch with a onepin changeover contact. Mechanical life cycle: approx. 1 million switch operations, electrical life cycle dependent on load. In the case of an inductive load, spark suppression should be incorporated.

FE 309, FE 319, FE 329

Electrical data

	Maximum counting speed	
	20 Imp./s	10 Imp./s
Voltage $\pm 10\%$	24 VDC	24 VAC 110 VAC 220 VAC
Residual ripple / Frequency	$\leq 48\%$	50 ... 60 Hz
Rating	4 W	5 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, 220 V, 1 A AC: max. 100 VA, 220 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

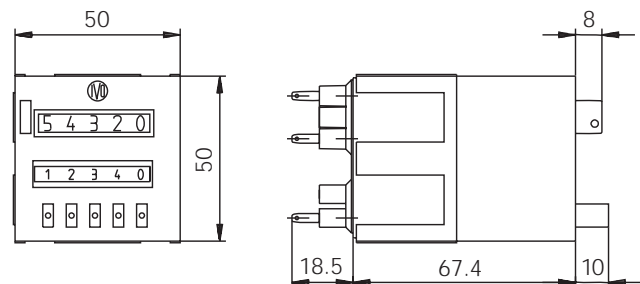
Ambient conditions

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 61 010 Category II
Interference immunity	EN 50 082 - 2 Severity grade 2 - 3
Emitted interference	EN 50 081 - 1
General rating	EN 61 010
Overvoltage protection	II

Dimensions and cut-out sizes

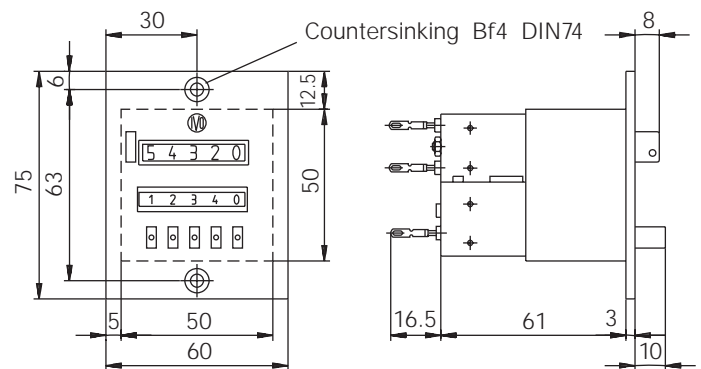
FE 309 to be plugged in and lined up within housing

Cutout 50 x 50 mm



FE 319 with screw fixture

Cutout 51 x 51 mm



FE 329 with clamping fixture

Cutout 51 x 51 mm

