



FS 304 To be plugged in and lined up in housing



FS 314 with screw fixture



FS 324 with clamping fixture

Electro-mechanical Preselection Counters with one Preset / pre contact

Order designation

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 in housing

FS 304.540A	☐ ☐ B	With key reset, 5-digit display
FS 304.550A	☐ ☐ B	With reset button, 5-digit display
FS 304.551A	☐ ☐ K	With reset button, 5-digit display *

Front dimensions 60 x 75 mm, Mount. of front plate by means of 2 screws

FS 314.540A	☐ ☐ B	With key reset, 5-digit display
FS 314.550A	☐ ☐ B	With reset button, 5-digit display
FS 314.551A	☐ ☐ K	With reset button, 5-digit display *

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

FS 324.540A	☐ ☐ B	With key reset, 5-digit display
FS 324.550A	☐ ☐ B	With reset button, 5-digit display
FS 324.551A	☐ ☐ K	With reset button, 5-digit display *

* With pre contact, please indicate the value when placing your order.

Mechanical data

Display	5-digit, 99 999
Digit size	Approx. 4.5 mm high, white on black background
Reset	Manual by button or key
Counting	1 pulse = 1 digit subtr. in 2 half-steps
Housing material	Plastic, black front plate
Weight	Approx. 150 g
Life cycle	Approx. 10 ⁸ pulses
Output contact	The integrated switch is a commercial microswitch with a one-pin change over contact. Mechanical life cycle: approx. 1 million switch oper., electr. life cycle dependent on load. In the case of an inductive load spark suppression should be incorpor.

FS 304, FS 314, FS 324

Electrical data

	Maximum counting speed	
	20 Imp./s	10 Imp./s
Counting		
Voltage $\pm 10\%$	24 VDC	24 VAC 110 VAC 220 VAC
Rating	2.2 W	2.4 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 connector 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
Residual ripple / Frequency	DC: $\leq 48\%$ AC: 50 ... 60 Hz

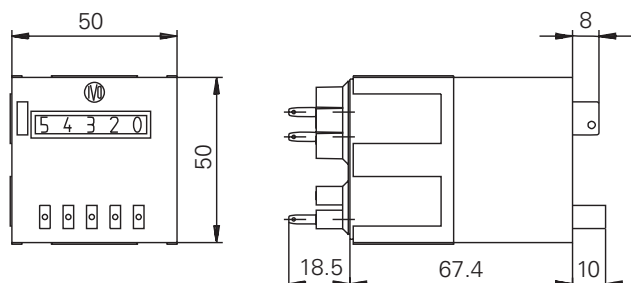
Ambient conditions

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 - 2
General rating	EN 61 010
Overvoltage protection	II

Dimensions and cut-out sizes

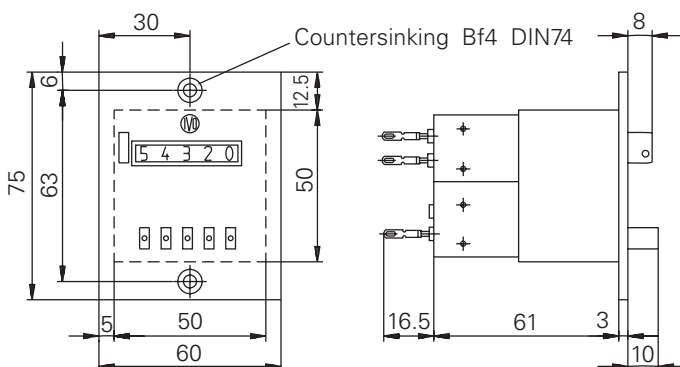
FS 304 to be plugged in and lined up within housing

Cutout 50 x 50 mm



FS 314 with screw fixture

Cutout 51 x 51 mm



FS 324 with clamping fixture

Cutout 51 x 51 mm

