

fischertechnik e-m6

Counter

(electromagnetic)

for Models with the
fischertechnik-extension
kits Electro-Mechanic e-m
Electronic ec
hobby 3
hobby 4

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with the assistance of Google.



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The electromagnetic fischertechnik-Counter

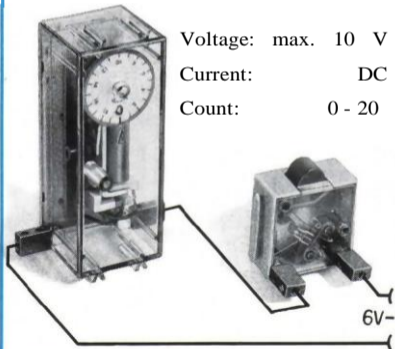
For testing, we connect the counter to a fischertechnik pushbutton and press the actuator a few times. The counter counts each sampling pulse.

Technical Data:

Voltage: max. 10 V

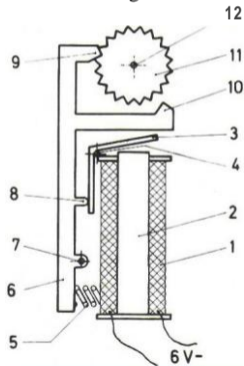
Current: DC

Count: 0 - 20



Principle:

If no current flows through the coil 1, the spring 5 presses the switching fork, rotationally mounted about the pivot 7, with the switching tooth 9 into a tooth gap of the toothed counting gear 11. This has 20 teeth, rotating about the bearing 12 and is fixed to the counting disk.



If current is now passed through the coil 1 with many windings of thin copper wire wound around an iron core 2, the iron armature 3 is attracted by the resulting magnetic field. The switching fork 6 is moved outwards via its cam 8 and the switching tooth 9 no longer engages. The other switching tooth 10 of the switching fork 6 engages and pushes the counting gear 11 by half a tooth gap and holds the switching wheel in this position.

When the circuit is de-activated, the magnetism in the iron core 2 disappears, and the spring 5 can return the switching fork 6 and the armature 3 to the initial position. When the counting gear is released by the switching tooth 10, the switching tooth 9 moves the counting gear by a further half of a tooth gap.

Fischer-Werke · 7241 Tumlingen

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