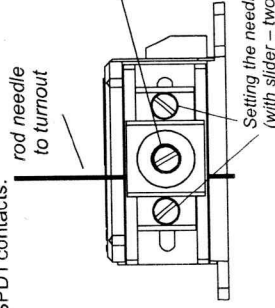


# MP10 model railway motor switch

The motor switch is used for electric operation of the two-position mechanisms in models such as turnout points. The travel distance can be set in four steps, 3mm, 6mm, 9mm and 12mm, see the illustration.

It is possible to use two control modes - 3 wire mode, like electromagnets or two wire bipolar, like common motor switch, with a current consumption approx 150 mA during motion. The mechanism has a end of travel detection switch, i.e. the control voltage can be applied permanently, to be disconnected automatically once a respective position is reached and the motion stops. For accessory and frog control purposes, there are two independent 1-amp switch SPDT contacts.

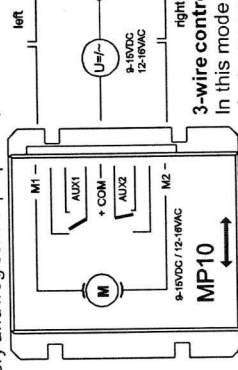


Needle mount and height adjustment - by moving axially the needle with the screw loosened (2 grooves for needles of different sizes)

The socket can be moved and mechanism fastened directly with the M2 screw



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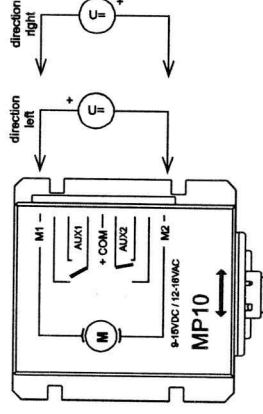


## 3-wire control mode

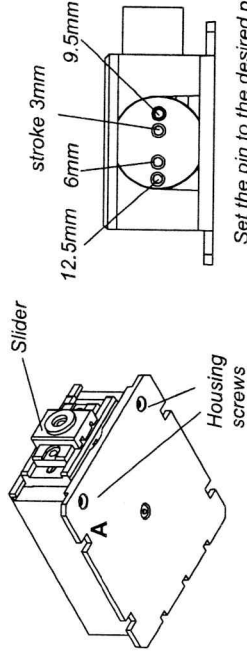
In this mode MP10 is used in same way like electromagnetic switch. A.C. or D.C. power supply can be used. Terminal M1 or M2 control direction of movement.

Motor switch and its direction can be controlled by changing of polarity of power supply. Only DC voltage can be used 8-16V.

## 2-wire mode



## How to change the distance of travel



Set the pin to the desired position

steps

- A) Unscrew 2 screws on the housing bottom
- B) Remove the slider assembly
- C) Set the pin to a desired position
- D) Reassemble the set and fit the housing.

The switches must get in contact with cams, but beware of plastic parts while retightening. Excessive effort might cause damage to them; try with the screw **A** first.

## Model repairs

The warranty is applicable to defects in manufacture only. The product is intended for use at your home only in models, not within commercial or industrial applications. Warranty repairs can be claimed with the manufacturer and/or through a vendor. For contact details visit [www.mtb-model.com](http://www.mtb-model.com). Return the product to an electro-wastes collecting point at the end of its life! Manufacturer: MTB, Segala group s.r.o. Prague 10 Czech rep.