Points Motor with Limit and Polarity Switch for the Core

Item-No. 21 99 98

Intended Use
This points motor serves for operating model train points. Thanks to its switching path of 7 mm and its limit switch, this points motor is suited for all rail gauges. This points motor is powered by a switching impulse. In order to switch the polarity of the points core, the points motor is equipped with a polarity switch. Application is restricted to closed, dry rooms. The entire product may not be altered or modified and the casing may not be opened! The safety notices have to be observed under all circumstances!

Safety Notices

⚠️ Damages caused by non-compliance with this operating manual lead to an expiration of the warranty! We will not assume any liability for subsequent damages!

We will not assume any liability for damages to items or persons caused by improper handling or non-compliance with the safety notices! Any warranty claim will null and void in such cases.

For reasons of safety and licensing (CE) it is not allowed to alter respectively modify the product.

Avoid heavy mechanical strain on the appliance.
This appliance may not be subjected to high temperatures, strong vibrations or high degrees of humidity.
This product is not suited for children below the age of 14.

Make sure you observe the following safety notices prior to cleaning or servicing the product:
When opening the covers or removing parts of the casing, you may expose live parts. Therefore you have to disconnect the appliance from all voltage sources and connections prior to performing maintenance or repair work. Condensation in the appliance may still be charged, even if the appliance was disconnected from all voltage sources. Repairs may only be conducted by experts who are familiar with the associated risks respectively the pertinent regulations.
Do not leave the packaging material lying around. Plastic foils and bags, polystyrene parts etc. are dangerous toys in the hands of children.

Side View

Delivery Scope
1 points motor
1 switching wire, diameter 0.4 mm
1 switching wire, diameter 0.75 mm

Assembly
First take the switching wires off the casing. Drill a hole with a diameter of approx. 12 mm underneath the switching plate into the model train board. Make sure that there is enough room for both switching wires in the two end positions. Cut out the drilling pattern below. Under consideration of the given space, mark the mounting holes through the two mounting flanges. Screw the switching wire to the respective side of the shifting rod. Now mount the points motor with 2 screws underneath your model train installation (mounting flanges up towards the model train board). Fine adjustment takes place via the fixing screw, by shifting the switching motor and on the little lever of the shifting rod. Afterwards make sure that you shorten the protruding length of the shifting wire, otherwise there is a risk of injury.
The thicker wire may not be shorter than 25 mm.

Disposal
Dispose of any obsolete points motors according to the valid legal directives.

Technical Data
Operating voltage: 16 VAC
Power consumption: approx. 1 A
approx. 7 mm
Shifting path:
Dimensions (W x H x D):
23 mm x 21 mm x 67 mm
Weight:
approx. 34 g

The connections to the switching station can be detected on the shunt diodes.

After removing the switching wire, this button allows you to arrest the shifting rod in the central position for exact assembly.