



AŽD POINT MACHINE TYPE EP 600

- Simple installation
- Universal application
- Long service life
- Minimum maintenance
- High railway environment resistance

General Description

The electromechanical point machine controls and secures points, frogs with movable toes and derailleurs.

They are manufactured in the trailable and the non-trailable variant, they are right or left and designed for installation by toggle mounting set, for installation to the hollow sleeper or for installation by flange joint.

Basic Technical Description

This type of point machine has no internal lock. Point machines constitute the housing with a lockable lid. The housing includes moving, throwing, retaining, switching and checking mechanisms.

Point machines are assigned for points with external locks whose throwing resistance does not exceed 4,5 kN. For single multiple-lock po-



Flange fixation of point machine

ints with higher throwing resistance the multiple point machine control can be used.



Configuration of point machine in hollow sleeper



Fixation of machine by toggle mounting set



Basic Technical Parameters

| | | |
|--|---|--|
| Weight | | approx. 200 kg |
| Electrical strength | between live parts of the motor and frame | 2,3 kV |
| | between other live parts and frame | 4 kV |
| Increased resistance against surrounding air temperature | | -40 to +70 °C |
| Point machine outputs | point machines with AC 3 x 400 V motor | 550 W |
| | point machines with AC 230 V motor | 290 W |
| | point machines with DC 110 V motor | 380 W |
| MTBF with load of up to 3,5 kN | | min. 3×10^5 throwing-overs |
| Mean service life | | min. 2×10^6 throwing-overs (25 years) |
| Length of throwing trajectory (stroke) | | 110 to 240 mm |
| Throwing force controlled by clutch | | 3 to 6 kN \pm 10% |
| Retaining force (trailable point machine) | | 7 kN \pm 15 % |
| Retaining force (non-triable point machine) | | min. 75 kN (hollow sleeper or flange connection) |
| | | min. 30 kN (with toggle mounting set) |
| Throwing-over duration | | 0,5 – 6 sec. |
| Internal wiring | | acc.to customer's specification |
| Point position checking | | with checking mechanism |