PointSWing EP-650

Electromechanical point machine

- **Advantageous installation to hollow sleeper**
- **Easy installation to sleepers using reducers or brackets**
- **Modular design and adaptability of connection with any interlocking**
- **Point machine with external lock**
- **End position optical detection**
- **Long service life**
- **Minimum maintenance**
- **High railway environment resistance**
- **Meeting le-114 specification**

GENERAL DESCRIPTION

The electromechanical point machine PointSWing EP-650 (further EP-650) is used for control and securing of single points, crossings, movable point frogs and derailers.

EP-650 is manufactured in a trailable or non-trailable version, it is right or left-hand and designed for mounting with a toggle or fixed set / bracket or to a hollow sleeper.

BASIC TECHNICAL DECRIPTION

EP-650 consists of a housing with a lockable lid. Moving, throwing, retaining, switching and checking devices are built into the housing.

EP-649 is designed for points with external locks.

For single multiple-lock points with higher throwing resistance the multiple point machine control can be used.

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BASIC TECHNICAL PARAMETERS

Power supply	AC 3 x 400 V ± 10 %, 50 Hz; AC 230 V ± 10 %, 50 Hz; DC 110 V
Temperature range	climatic category T1 according to EN 50 125-3
Humidity	to 100 %
Weight	approximately 170 kg
Electric strength	4 kV, 50 Hz, 1 min.
Stroke	110 mm to 240 mm
Throwing force controlled by clutch	3 kN to 7 kN
Retaining force (trailable point machine)	9 kN + 1 kN
Retaining force (non- trailable point machine)	75 kN
Retaining force (non- trailable point machine) including end position checking	25 kN
Throwing time	0,5 s to 6 s
Cover rating	IP54 standard, IP65 upon request
MTBF	min. 3×10^5 throwing overs
Service life	minimum 25 years (min. 2×10^6 throwing overs)
Internal wiring	4-wire (N86, ESA, Modest, E1)
Point position checking	using the checking mechanism

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