



TrackSWing AHP-03

Line signalling system

- Relay-based line signalling system for train speed up to 100 kmph
- Open line section checked by single axle counter
- Distance between stations up to 20 km
- Compatibility with any type of station interlocking system
- Compatibility with any type of level crossing system



GENERAL DESCRIPTION

TrackSWing AHP-03 (further AHP-03) is the line signalling system designed for train operation control on the lines with any catenary system. AHP-03 provides line consent function, interface to station interlocking systems and control of block signals on the open line divided into two sections. AHP-03 is designed for lines with the line speed up to 100 kmph.

For detection of track section occupancy, AHP-03 exclusively uses an axle counters.

AHP-03 consists of relay logic circuits and the relay interface to wayside elements and other cooperating systems.

BASIC TECHNICAL DESCRIPTION

The safety concept of AHP-03 is based on the use of N-class relays according to UIC classification.

The concept of computer control is based on the function of unified control place TrafficSWing JOP or connected interlocking system.

AHP-03 consists of the following parts:

Commanding part – is always part of connected interlocking system. It can be implemented either by manual elements (buttons, bulbs) or it can be a part of TrafficSWing JOP. Vital commands are provided only for cancellation of block condition (if applicable).

Relay part – includes logic circuits and interfaces to individual wayside elements (e.g. electric locks) and to connected interlocking systems. These interfaces can be controlled

either by relay circuits or directly by vital computer part.

Wayside part uses the means for:

- Signalling - light signals
- Safeguarding points and derailleurs
 - electric locks in combination with point and centralized locks
- Detection of track section occupancy
 - exclusively with axle counters

AHP-03 can be connected to:

- Station interlocking system
- Level crossing system
- External diagnostics

Indoor part of AHP-03 is preferably installed in the interlocking rooms. On the open line, AHP-03 is installed in relay sheds, relay cabinets or other suitable housings.

AHP-03 complies with EN 50 125-3 for installation inside the buildings without the climatic regulation.





BASIC TECHNICAL PARAMETERS

Supply voltage 24 V	-20 % / +33 %
Supply voltage 48 V	±20 %
Temperature range	-25 °C to +35 °C
Humidity	80 %
Service life	according to service life of N-class relays

