

Train approach indicator

PINTSCH BAMAG ARM

Module for timely train approach indication

Use

The module ARM is used for switching and indication functions in interlockings and level crossings. The main application is to provide train approach indications to interlockings for timely switch-on of main signal monitored level crossings.

Function

Trains approaching to a level crossing are detected by one or two train induction loops FSP and its detection modules ESD. The module ARM receives the signal from the ESD and can determine the direction of the train. In the case of an approaching train the module ARM provides a relay pulse of configurable duration.

A supply voltage of either 36V or 60V is required. Subject to the specific requirement of the train approach information the ARM can submit the information dependent on the direction of the train. In this case two induction loops FSP with two modules ESD are used.

The information is given by a potential-free relay contact with pulse duration of either 3 sec. or 10 sec.

Technical Design

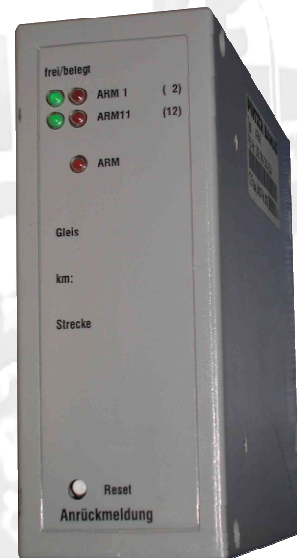
The module ARM is placed in a plastic housing of protection class IP30. It can be mounted on a standard top-hat rail either in the interlocking or in the housing of the level crossing.

The module contains a voltage converter and the circuit arrangement with input circuit, internal logic and output relay. The input signals are received by optocouplers.

The status of the inputs (occupied/free) is displayed by several LED on the front of the module.

Specification

Weights	: 220g
Dimensions	: 118mm x 135mm x 45mm
Operating temperature	: -25°C to +70°C
Supply voltage	: 36V DC +8V/-5V or 60V DC +/-15V
Output contact	: 300mA (insulation test voltage 4kV)
Output pulse duration	: 3 sec. or 10 sec.



Module ARM



Built-in modules