



# LEVEL CROSSING SYSTEM PZZ-AC

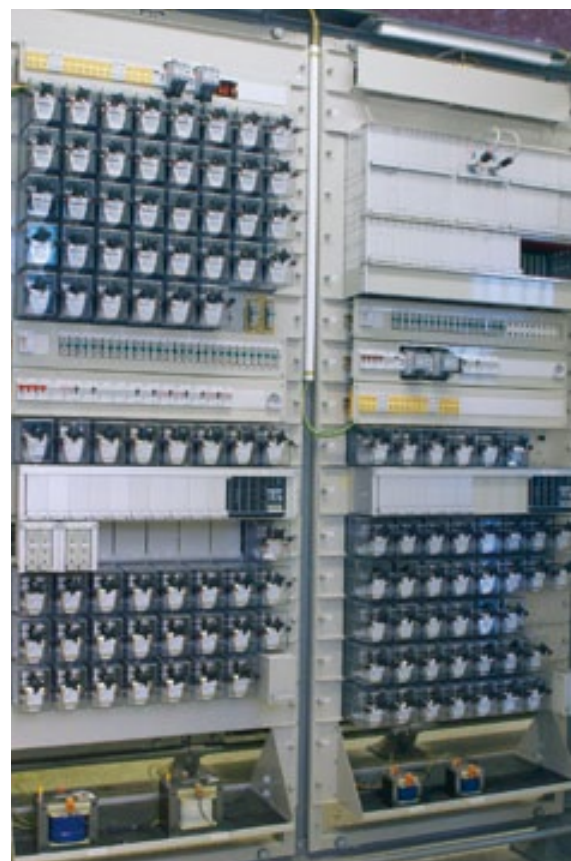
- Automatic control triggered by train operation
- Failsafe and reliable system meeting SIL4 requirements according to CENELEC Standards
- Combination of proven relay circuits and modern electronic elements
- 230 V AC power supply for wayside elements allowing installation of control and checking circuits away from the level crossing to reduce investment cost
- Can be used at stations or single and multiple lines
- Transmission of system state indications to respective station or through barrage/protection signal to a tractive vehicle

### General Description

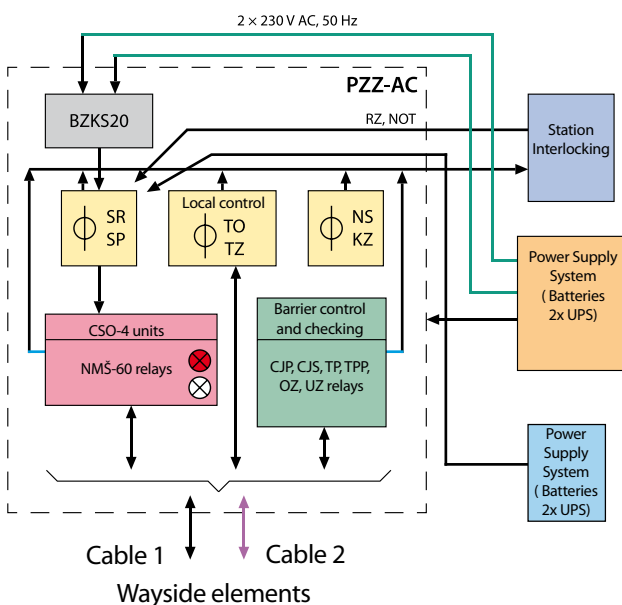
The PZZ-AC level crossing system is relay system with electronic elements designed to protect locations where roads cross a railway (single or multi-track) line. The level crossing must be covered by main signals operating according to the state of the level crossing system.

### Basic Technical Description

The PZZ-AC system provides protection for a level crossing located within a station area with control and checking circuits located remotely from LX site (in a station interlocking room) and auxiliary elements (transformers for supply of wayside level crossing elements – warning boards, chimes, barriers) fixed in a cable cabinet by the level crossing.



which are part of the PZZ-AC or the station interlocking.



The start and the end of warning signals at the level crossing without its own switch-on/off elements depend on a state of the station interlocking system.

The PZZ-AC logic functions are generated by relay circuits assembled by N-class relays (UIC)

Information regarding the state of PZZ-AC is displayed on the station commanding place by indications on a control panel or a checking and control box, or on JOP VDU (Unified Active Control Place).

Equipment is partly installed in a cable cabinet at the site and in the interlocking room.

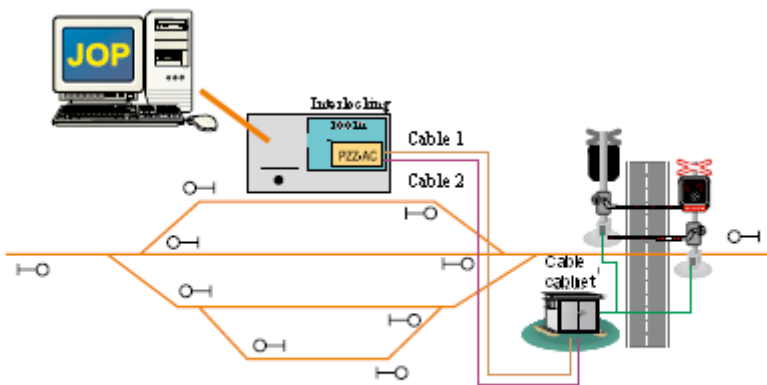
System can be connected to LDS diagnostic system.





### Basic Technical Parameters

Power supply of electronics and relays	24 V DC + 33%, -20 %
Output voltage for wayside elements	230 V AC, 50 Hz +10 %, -14 %
Working temperature range	-40 až +65 °C
Operating input of electronics and relays	< 50 W
PZZ-AC radiated power output dissipation	in cooperation with electronic interlocking < 15 W in cooperation with interlocking of other type < 100 W
Max. number of connected warning boards	10
Max. number of barrier drives	no limits
Max. number of tracks	no limits
Service life	20 years



Block diagram – example of the PZZ-AC installation