



GateSwing PZZ-J

Level crossing

- Automatic activation by an approaching train
- Failsafe and reliable system meeting SIL4 requirements according to CENELEC
- Architecture 2oo3
- Control computer (core) for up to 16 level crossings
- High reliability and availability
- Remote control from station
- Failsafe contact/data interface to station interlocking system
- Local and remote diagnostics can be centralized to DiagSwing LDS-03



GENERAL DESCRIPTION

GateSwing PZZ-J (further PZZ-J) is microprocessor based level crossing system designed to protect level crossings of roads with a railway line.

PZZ-J architecture is designed as centralized control system with remote peripherals using the data

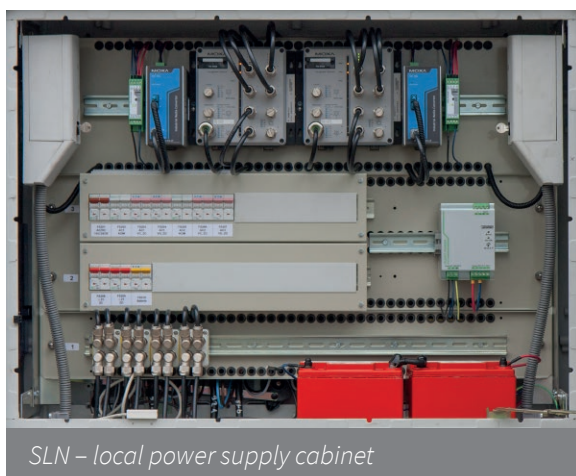
communication (Ethernet) for control and supervision. Smart peripherals – LED-J warning board and PZA-200-J barrier drive are individual object controllers with their own control.

BASIC TECHNICAL DESCRIPTION

PZZ-J Control computer (core) consists of SPZZ cabinet located in interlocking room/level crossing shed. SPZZ cabinet further consists of a core control panel with generic SW and implemented functional algorithms, technology for standby communication with remote peripherals and centralized diagnostics of PZZ-J (for station and line level crossings).

SLN cabinet of local power supply is located in the place of each level crossing and consists of protection elements, converters for power supply, technology for data communication and other fittings necessary for system functionality.

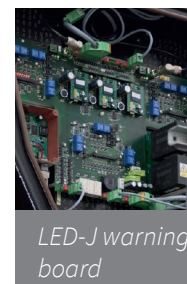
Object controllers – LED-J warning boards and PZA-200-J barrier drives are connected to SLN cabinet. LED-J forms remote periphery with its own control and provides the road traffic users with the light and acoustic information/warning on possibility/prohibition to enter the level crossing



SLN – local power supply cabinet



PZA-200-J
barrier drive



LED-J warning
board





area. PZA-200-J is also remote periphery with its own control.

and 160 smart peripherals (LED-J and PZA-200-J).

between PZZ-J Control computer (core) and interlocking system or RBC. ETCS Level 1 can be connected directly to PZZ-J Control computer (core).

PZZ-J Control computer (core) can control up to 16 level crossings

Compatibility with ERTMS/ETCS Level 2 system is provided by interface

BASIC TECHNICAL PARAMETERS

Supply voltage	230 V + 10 %, - 15 % / 50 Hz	
Max. number of warning boards	12 pcs. (for 1 level crossing)	
Max. number of barrier drives	8 pcs. (for 1 level crossing)	
SPZZ cabinet	Max. input feeder 1/feeder 2	64 W/569 W
	Max. input feeder 1/feeder 2	25 W/625 W
SLN cabinet	Max. distance of peripherals	80 m
	Electric strength	4 kV
LED-J warning board	Max. input feeder 1/feeder 2	30 W/20 W
PZA200-J barrier drive	Max. input feeder 1/feeder 2	16 W/16 W
	Max. input of engine	150 W
Service life	> 25 years	
Temperature range	-40 °C to +80 °C	

