

Catalog Card

Train Movement Sensor (Husar CZR)



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PURPOSE, DEVICE CHARACTERISTICS

The train sensor is used to detect the presence of a train moving on the track at the the platform edge at which it is installed. The sensor is a dual-sensor measuring device The sensor is a dual-sensor measuring device which sends information to the Central Control Application for Dynamic Passenger Information.

Passenger Information Central Control Application. It is equipped with two types of sensors: ultrasonic and microwave.

The sensor has been manufactured according to IPI-6 guidelines.

TECHNICAL DATA

Technical parameters	
Sensor type	Dual sensor
Sensor type 1	Ultrasonic
Sensor type 2	Infrared
Supply voltage	12-24V, PoE
Power consumption (max)	17W
Operating temperature range	-40°C do +60°C
Dimensions (L/H/W)	450mm x 250mm x 125mm
Libra	5kg
Case	Made of corrosion-resistant material, painted in RAL 7035
Housing tightness	IP-65 (according to PN-EN 60529:2003) In accordance with IPI-6
Level of security	IK-07 according to (PN-EN 5012:2001) In accordance with IPI-6
Interfejs	Fast Ethernet 10/100Mbps RJ45
Protocols	HTTPS; SNMP; NTP; SSH

COMPLIANCE WITH STANDARDS

Study name	Number and title of the standard used	Requirements
Cold resistance	PN-EN 60068-2-1:2009 Environmental research. Part 2-1: Trials: cold	Sharpness -40oC
Dry heat resistance	PN-EN 60068-2-2:2008 Environmental research. Part 2-2. Trials: dry heat	Sharpness +55oC
Damp heat cyclic resistance	PN-EN 60068-2-6:2008 Environmental research. Part 2-30. Trials: damp heat cyclic	Sharpness +55oC, Humidity 95%
Sinusoidal vibration resistance	PN-EN 60068-2-6:2008 Environmental research. Part 2-6. Trials Fc: sinusoidal vibration	Frequency: 3-40 Hz Amplitude: 0,2mm Frequency: 40-100Hz Amplitude: 0,03mm
Resistance to mechanical impacts	PN-EN 60068-2-27:2009 Environmental research. Part 2-27. Trials Ea: impacts	Acceleration of strokes: 2g Duration: 11ms
Checking the degree of protection IP	PN-EN 60529:2003/A2:2014-07 Degrees of protection provided by enclosures (code IP)	Device testing without negative pressure. IP65
Checking the degree of protection IK	PN-EN 50102:2001 Degrees of protection against external mechanical impacts provided by enclosures of electrical equipment (code IK)	IK07
Measurement of Energy magnetic conducted disturbances	PN-EN 55016-2-1:2014-09/A1:2017-12 Requirements for measuring apparatus and methods for measuring radio disturbances and immunity to disturbances. – Part 2-1. Disturbance measurement methods and immunity testing - Measurements of conducted disturbances	Compliance with standards PN-EN 50121-1:2017-06 PN-EN 50121-4:2017-4
Measurement of energy magnetic radial disturbances	PN-EN 55016-2-3:2017-06/A1:2020-01 Requirements for measuring apparatus and methods for measuring radio disturbances and immunity to disturbances. Part 2-1. Disturbance measurement methods and immunity testing - Measurements of conducted disturbances	Compliance with standards PN-EN 50121-1:2017-06 PN-EN 50121-4:2017-04