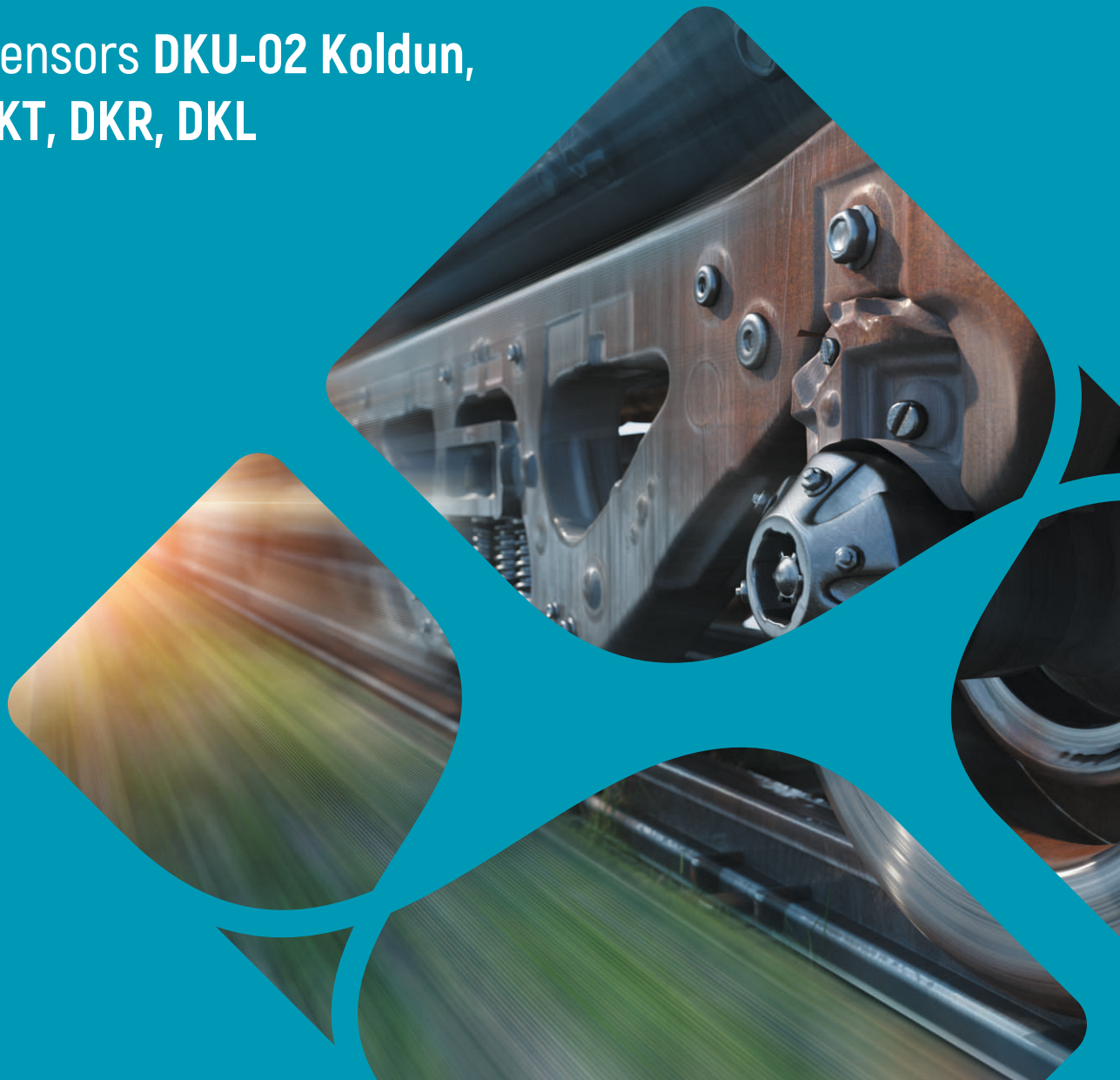
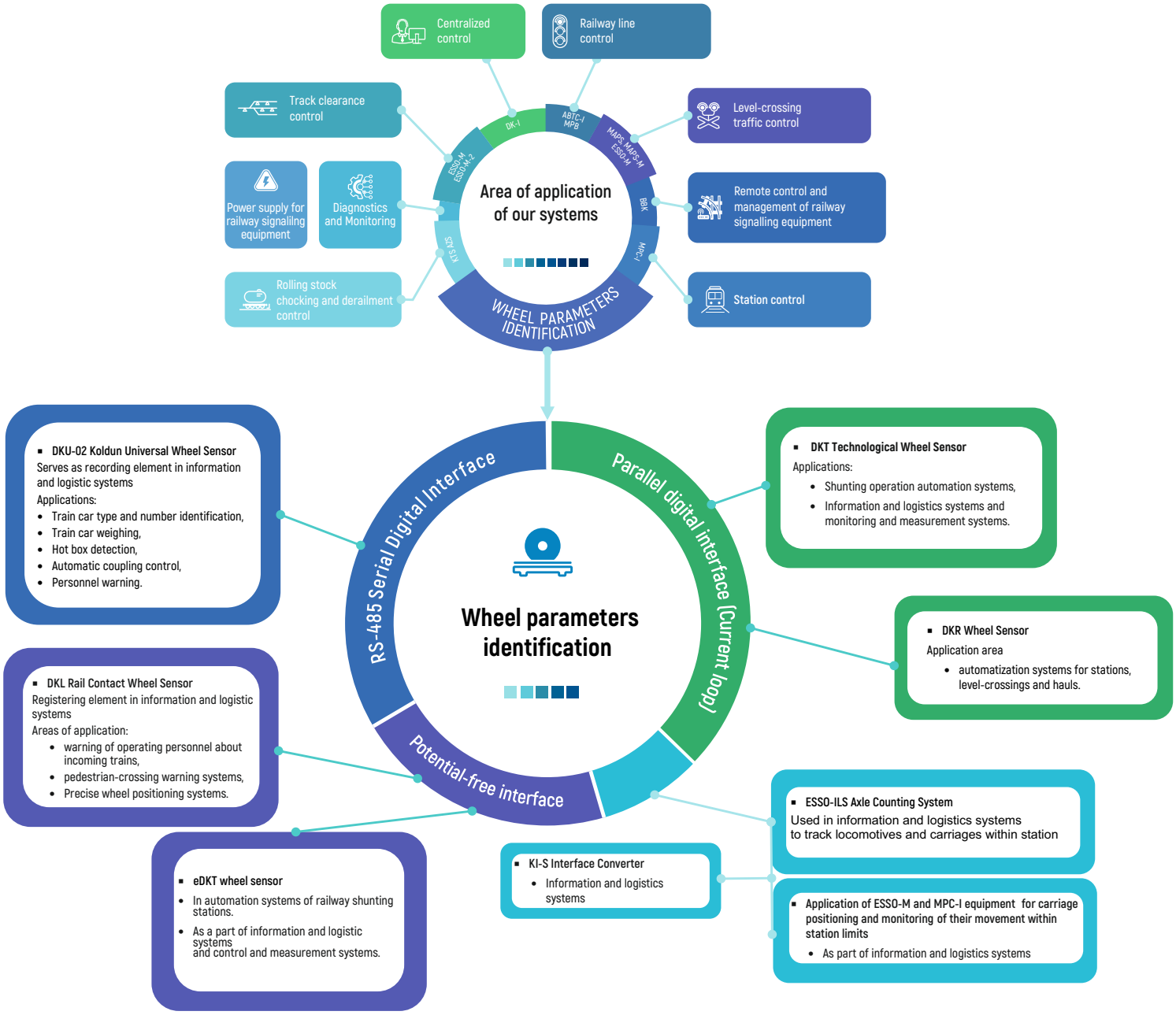
Research&Development Company
PROMELECTRONICA

Wheel parameters identification

# Wheel sensors **DKU-02 Koldun, eDKT, DKT, DKR, DKL**



npcprom.ru




R&D Company Promelectronica is an expert in the axle counting systems. Our axle counting systems ensure train traffic safety on all Railways of the JSC Russian Railways and actively used in Indonesia, Bulgaria, Brazil and other countries.

We use the axle counting technology to solve various Customer's tasks. Our equipment is used in information and logistic systems to monitor rolling stock movement, identify types and numbers of the train cars, CTC, etc.

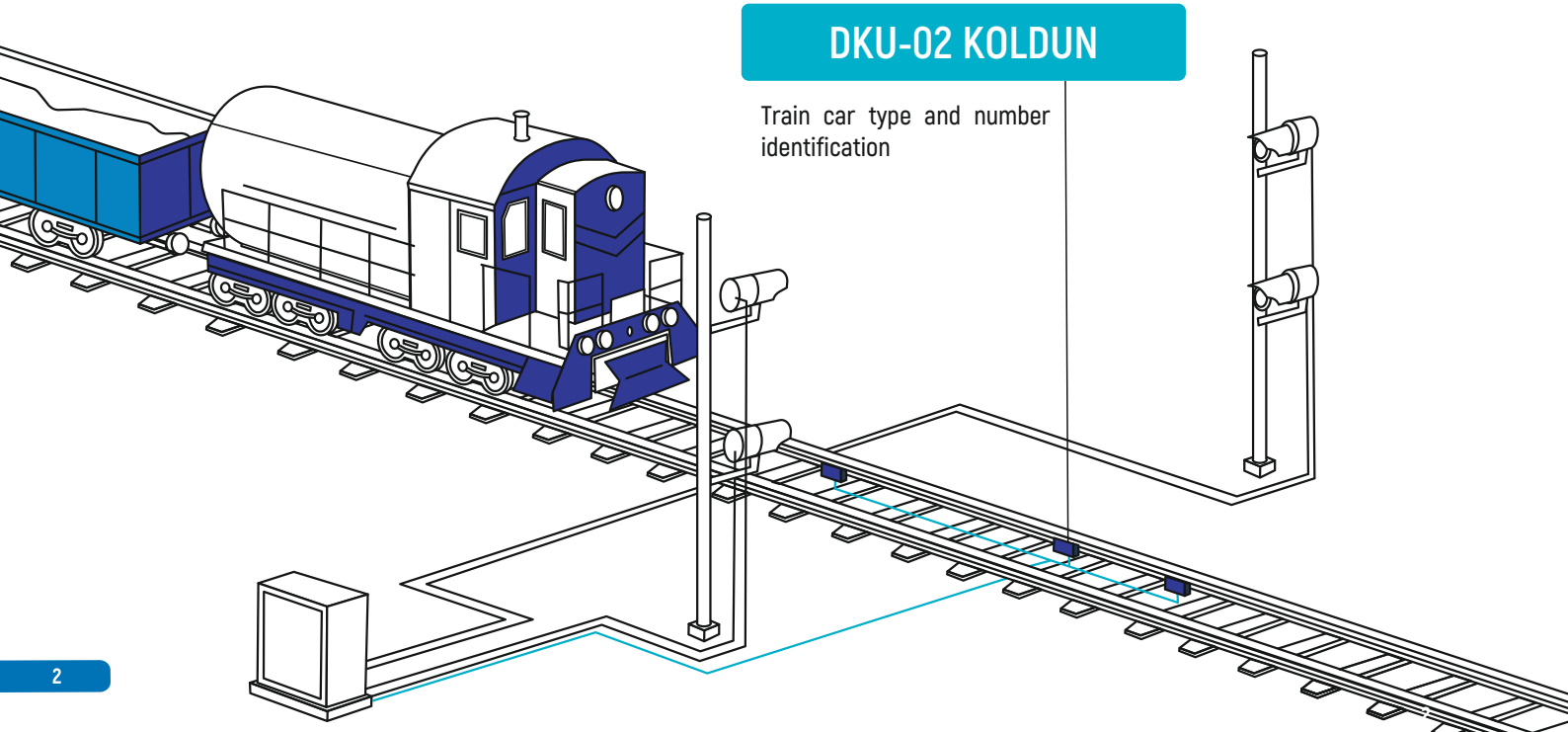
# RS-485 INTERFACE

## DKU-02 KOLDUN WHEEL SENSOR

DKU-02 Koldun detects wheel presence in the sensor area and passing of a wheel, counts axles considering the movement direction, calculates wheel movement parameters, performs self-diagnostics and transmission of received data to upper-level systems.

## AREAS OF APPLICATION

- Automatic coupling control systems.
- Warning of operating personnel about incoming trains.
- Rolling stock speed measurement.
- Train car weighing.
- Train car type identification.
- Positioning in hot box detection systems.



# RS-485 INTERFACE

## DKU-02 KOLDUN WHEEL SENSOR

## ADVANTAGES

- Software configurable to the Customer's requirements.
- Autonomous processing of received information.
- Direct connection to information and logistic systems.
- Extended operating temperature range: from -60 up to +70 °C.
- Increased reliability of operation when affected by special vehicles (snow-clearing vehicles, track carts, etc.).

DKU-02 Koldun Wheel Sensor

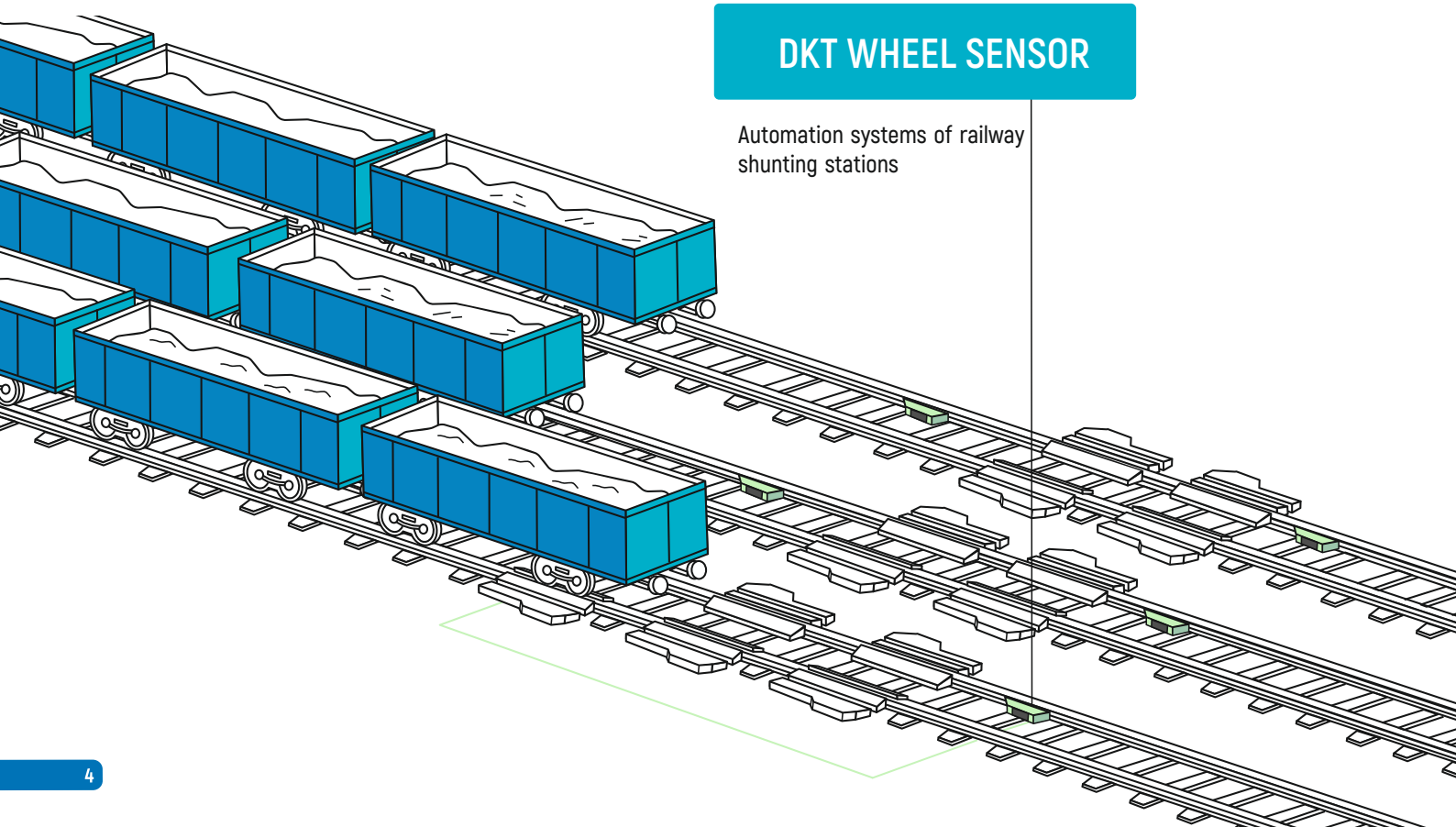
# PARALLEL DIGITAL INTERFACE («CURRENT LOOP»)

## DKT WHEEL SENSOR

Detects wheel presence within the sensing area, transmits signal on wheel presence and check data to the upper-level system.

## AREAS OF APPLICATION

- In automation systems of railway shunting stations.
- As a part of information and logistic systems and control and measurement systems.



# PARALLEL DIGITAL INTERFACE («CURRENT LOOP»)

## DKT WHEEL SENSOR

## ADVANTAGES

- The sensor has two wheel sensing areas.
- Data transmission speed on presence of a wheel to evaluator device: up to 8 ms.
- Extended temperature range: from -60 up to +70 °C.
- Easy and fast installation on all rail types.
- Does not require routine maintenance.


DKT Wheel Sensor

# PARALLEL DIGITAL INTERFACE («CURRENT LOOP»)

## DKR WHEEL SENSOR

DKR Wheel Sensor detects wheel presence in the sensing areas and sends data to upper level system which counts passed axles.

## ADVANTAGES

- Quick and simple installation on all rail types using clamps or via drilling.
- Does not require maintenance.
- Continuous automatic self-diagnostics.

## AREAS OF APPLICATION

- Automation systems for stations, level-crossings and hauls.

DKR Wheel Sensor

# POTENTIAL-FREE CONTACT INTERFACE

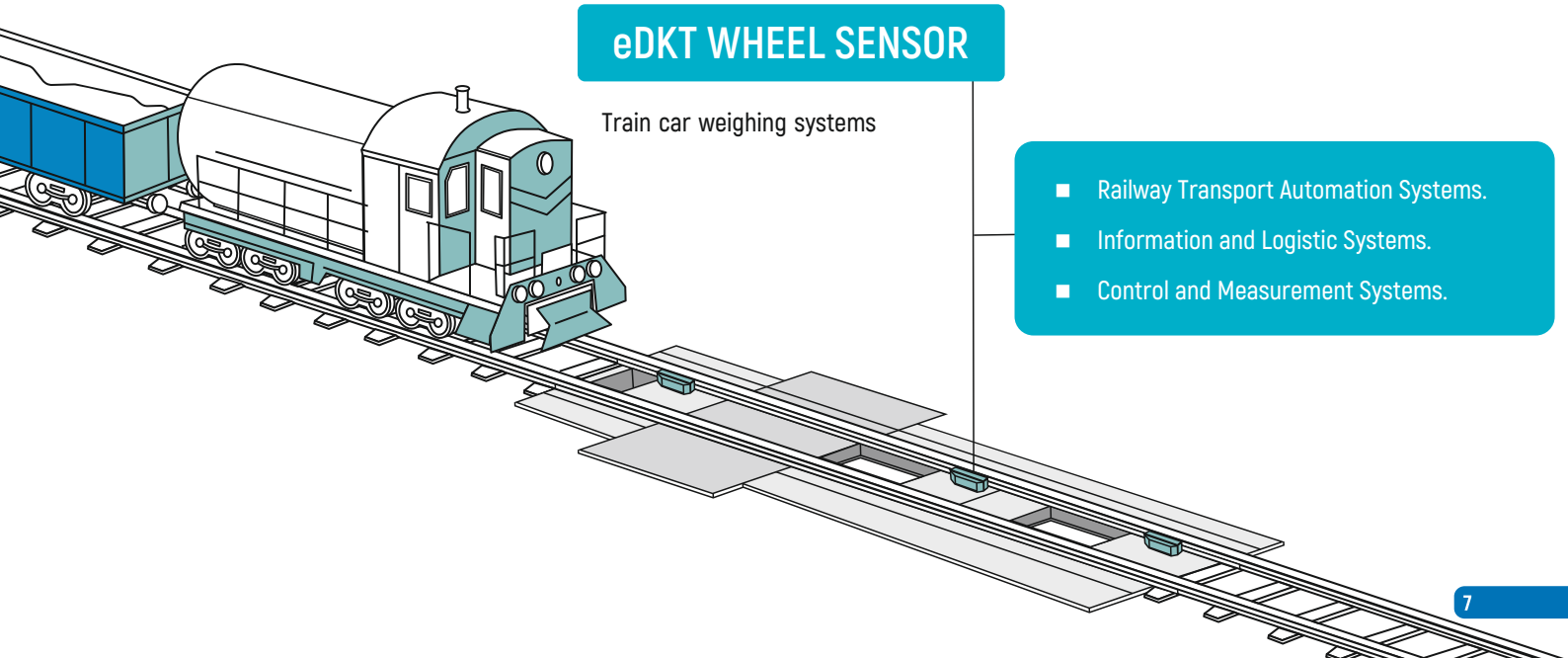
## eDKT WHEEL SENSOR

eDKT detects wheel presence within the sensor area, transmits signal on wheel presence to upper level-systems.

## ADVANTAGES

- Interface: dry contact, RS-485.
- Operating temperature range: -60 to +70 °C.
- Functions are configured to the Customer's needs.
- Easy and fast installation on rails of any type via clamp or drilling.
- Does not require routine maintenance.

## AREAS OF APPLICATION



# POTENTIAL-FREE CONTACT INTERFACE

## DKL RAIL CONTACT SENSOR

Detects train movement. Suitable for mobile solutions, lightweight and compact sensor.

## ADVANTAGES

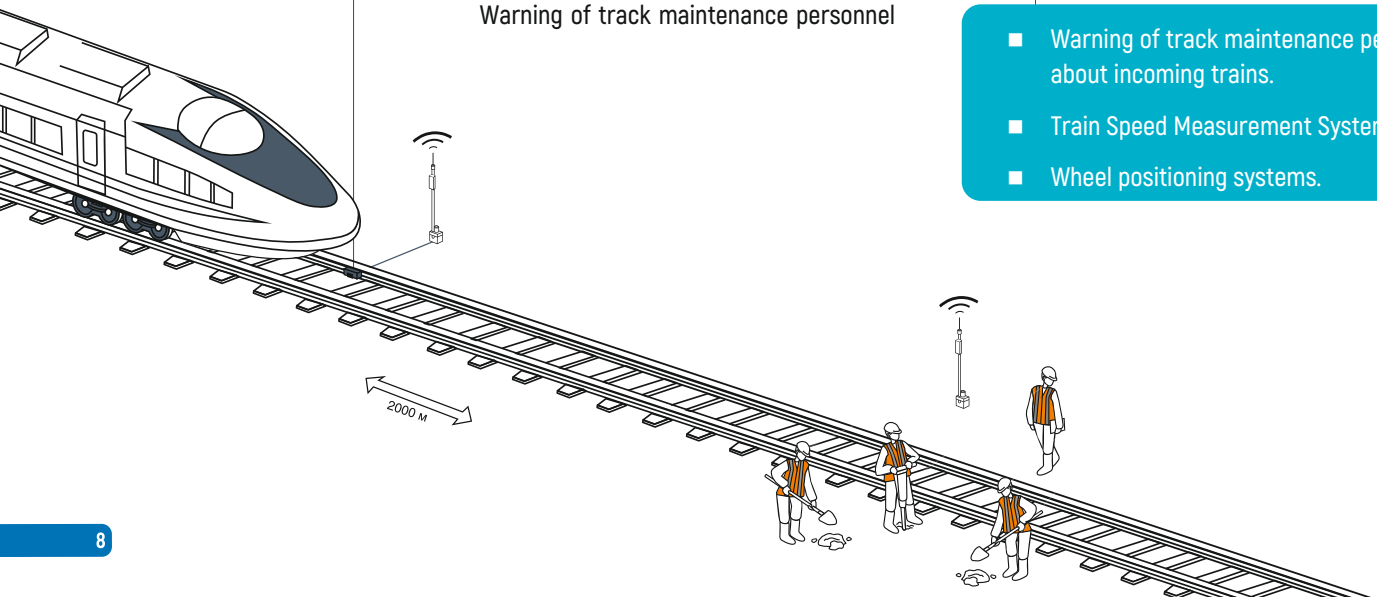
- Extended temperature range: from -60 up to +70 °C.
- Simple and quick installation on all rail types, installation time – less than 5 minutes.
- Does not require maintenance.

## AREAS OF APPLICATION

### DKL WHEEL SENSOR

Warning of track maintenance personnel

- Warning of track maintenance personnel about incoming trains.
- Train Speed Measurement Systems.
- Wheel positioning systems.



Research&Development Company
**PROMELECTRONICA**

Watch the video
about wheel sensors

620078, Russia, Yekaterinburg,
128A Malysheva Street

Phone: +7 (343) 358-55-00
Fax: +7 (343) 378-85-15

info@npcprom.ru
npcprom.ru