

Magnetic Speed Sensor MIREL SR

Type **SR**

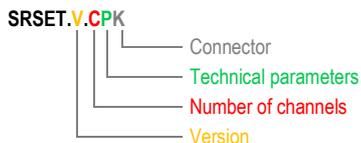
illustrative picture

Contact-free SR magnetic speed sensor is intended as an alternative to MIREL IRC axle speed sensor. It has been equipped with a magnetic scanning system, which enables in connection with gear wheel the measurement of speed and direction of rotational movement. Measurement principle is based on detection of magnetic field alteration, induced by ferromagnetic material-made gear wheel movement and on conversion to a sequence of electric pulses, from which speed and rail vehicle acceleration, rail vehicle travel direction as well as travelled distance are determined by further processing. Dependent on configuration of delivered sensor set, the output produces one or two speed channels, where each channel is composed of two electric, phase-shifted signals. Powering of SR sensor is provided by a device, to which the sensor is connected. The speed sensor is located on rail vehicle in a position allowing sensing of an already existing gear wheel, or eventually in a location where a gear wheel can be embedded.

Part of SRSET-delivery is a metal grommet with sealing for single- or double-channel applications and for modifications with connector also a connector and crimping pins.



Nomenclature



Modifications

Designation	Version	Number of channels	Technical parameters	Connector	Pulse quantity per turn	Weight [kg]
SRSET.1.2AK	1	2	A	HAN10-A	¹⁾	1,18

¹⁾ dependent on gear wheel. Recommended teeth number should be within a range of 50÷100 which represent a gear wheel diameter of ca. 100mm÷200mm

Technical parameters

Designation	Nominal supply voltage [VDC]	Tolerance of supply voltage [VDC]	Gear Wheel Module	Temperature range [°C]	Length if cable [m]	Covering ¹⁾
A	24	10V _{DC} ÷ 30V _{DC}	2	-40 ÷ +85	2	IP68

¹⁾ in the state mounted on the axle

Specifications

The Catalogue sheet was prepared on the basis of the following specifications:

Number	Version	Title
2128M	160613	SRSET Conditions of use
1992RM2	200813	MIREL RM2 Installation manual
2126M	160608	SRSET Installation conditions

Usage

MIREL RM2 – integrated on-board system





Modifications not recommended for new applications

No record.