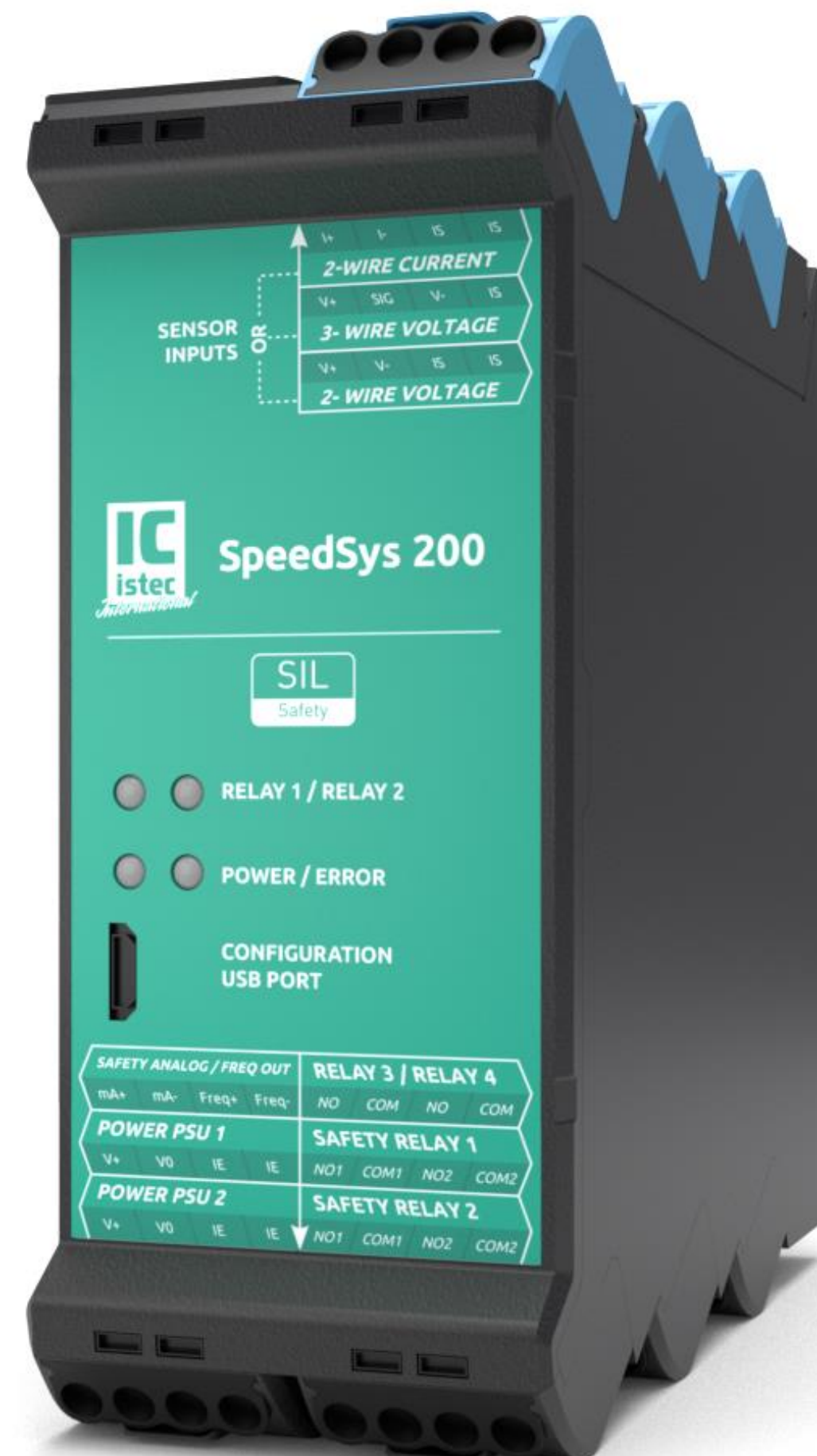


SpeedSys 200

GAME CHANGING INNOVATION
FOR SIL RATED OVERSPEED PROTECTION



SpeedSys 200

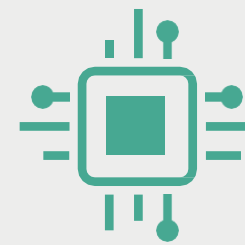
SpeedSys 200 is a SIL-rated overspeed detection system for rotating machinery. It delivers the core layer of protection with a compact architecture. Its small technical footprint and low-impact installation enables advanced protection to a wide range of applications.

Benefits



Safety by design

The simple and robust design of SpeedSys 200 meets the latest safety standards, and features easy maintenance and long proof test intervals.



Any configuration

The overspeed detection system is compatible with all sensor types and applicable in any environment, making it easy to install and retrofit.



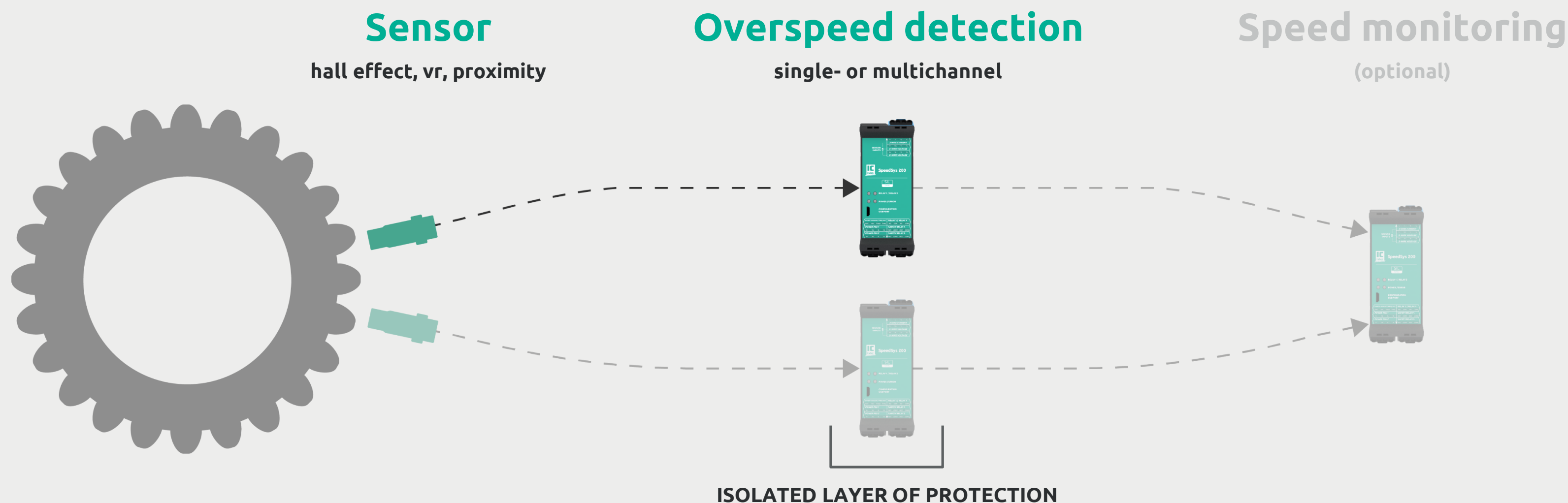
Scalable system

SpeedSys 200 is modular and scalable to fit any application; from low impact stand alone configurations to multiple module voting structures for increased safety or availability.

Design concept

SpeedSys 200 is designed as an independent layer of protection; to be fundamentally simple and robust. It delivers fast and reliable protection for speed and acceleration and complies to the industry standards.

A separate monitoring module can be added to include extensive monitoring and connectivity features to the configuration.



Application

The system architecture is designed to suit a wide range of applications. A single module can offer a reliable and economical solution for overspeed protection. Redundancy and voting structures can be created for more demanding applications or increased availability. Typical applications include:

- Microturbines
- Wind turbines
- Compressors and pumps
- Aeroderivative gas turbines
- Gas- and steam turbines
- Marine applications

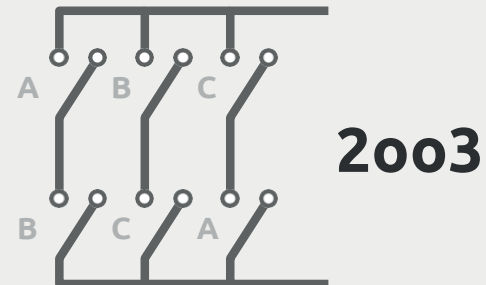
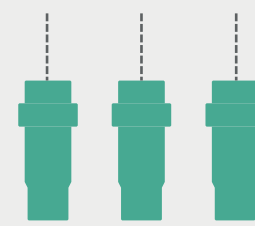
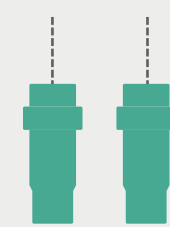
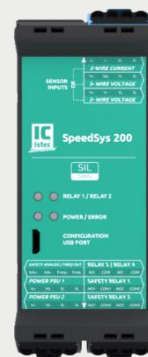
Configurations



Sensors

Modules

Configuration



Technical features

Features

Certified safety

SpeedSys 200 has been designed to meet the requirements for SIL 2 certified overspeed protection, featuring fast reaction times, advanced self-monitoring with long test intervals and sufficient safety outputs.

Designed for versatility

The system has a small technical footprint that can be used in field enclosures or in control rooms, and industry standard in- and outputs for easy integration and retrofitting.

Isolated inputs

Isolated inputs eliminate the need for separate isolators or barriers in the field, reducing failure modes and increasing sensor monitoring functions.

System features

System features

- SIL 2 certified protection
- 8 ms system response time
- 2 safety relays + 1 safety analog output
- Suitable for Hall-effect-, electromagnetic- or proximity sensors
- ATEX/IECEX Zone 0,1,2 (EX-ia) isolated inputs
- Advanced self-monitoring and diagnosis
- 10 year proof test interval (typical)
- External voting for redundant configurations

Standards

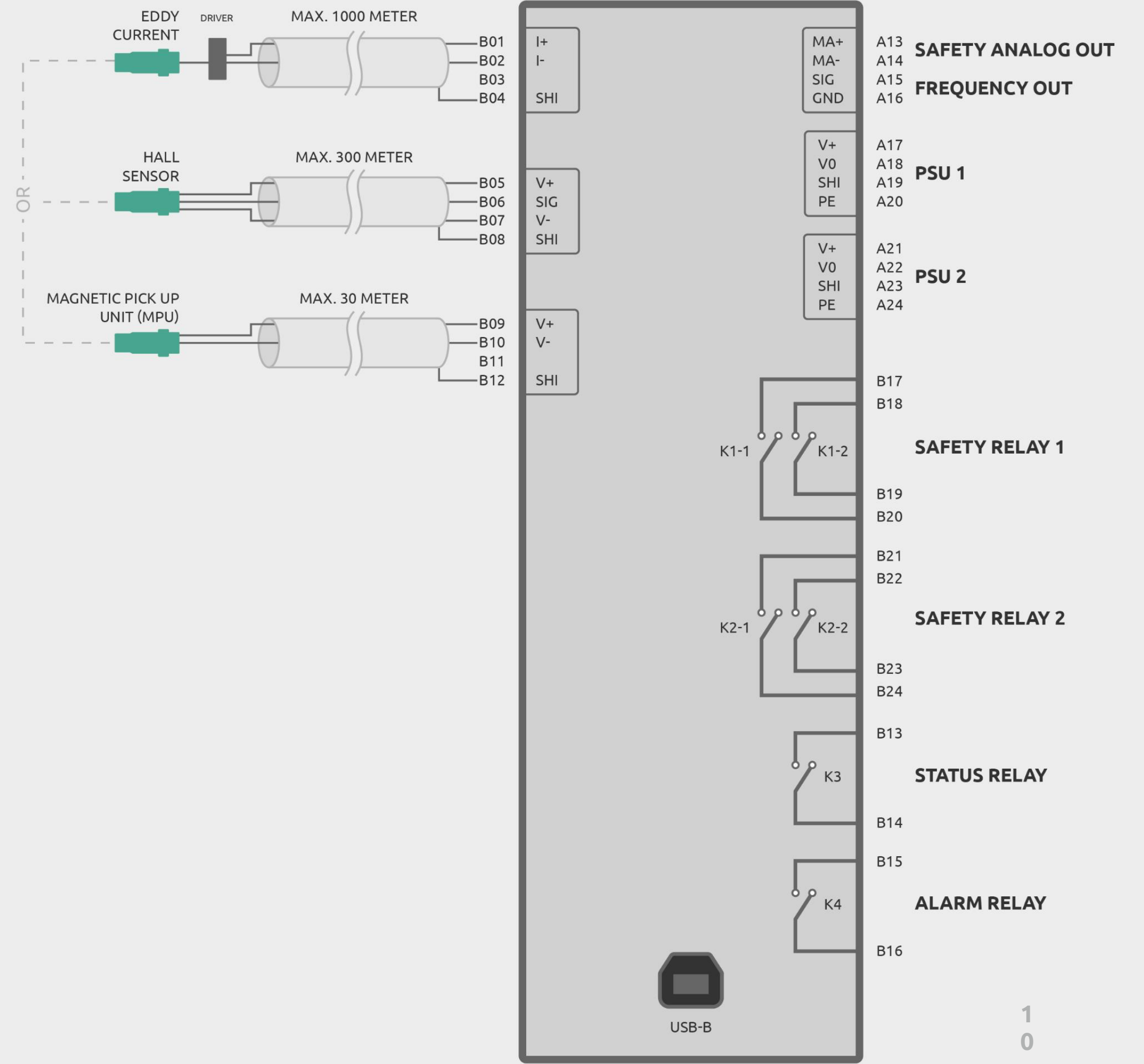
SpeedSys 200 is suitable for installations compliant to:

API670

API612

IEC 61508, SIL 2

Connection diagram



An Istec product

We ensure maximal value generation of your machinery by ensuring a full coverage of protection and monitoring solutions for critical assets. Our product design bridges the gaps and taps into our 45 years of expertise in the industry.

Our business is to support the control of these critical sensors and systems during their operational life; to guarantee maximum machine availability and safety and to provide new monitoring data and machine insights.

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