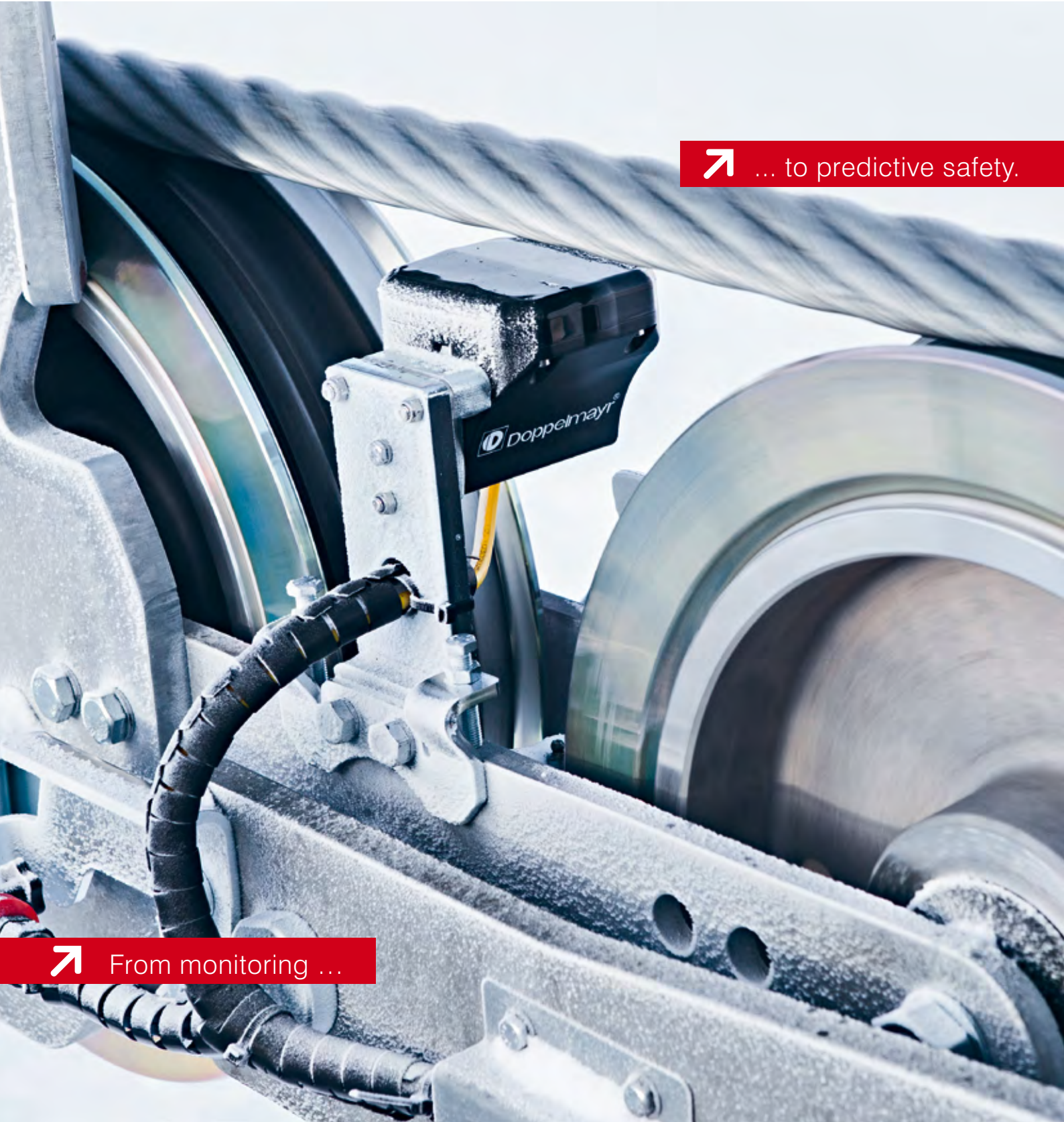


## RPD – Rope Position Detection

 ... to predictive safety.

 From monitoring ...






## Reliability at every stage

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Taking the long view, identifying trends, creating innovations – these are the strengths you can count on as a Doppelmayr/Garaventa customer. With leading-edge ropeway technology, we set the benchmark for transport systems geared to the future. Your trust in our capabilities and products motivates us to provide you with top performance every time. As your partner we take pride in our reliability.

The Rope Position Detection (RPD) system is the unrivalled safety standard for ropeway installations. It is the only system that can recognize a rope deviation from the liner groove at an early stage and conse-

quently reduce the risk of deropement. Operational failures can be virtually excluded. In every respect, the unique RPD safety system is always one step ahead. Continuous monitoring of the rope position using advanced technology guarantees absolute operational efficiency for ropeway operators and maximum safety for their customers.

 One step ahead  
with safety





## Safety technology at the highest level

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The innovative RPD safety system is weather-resistant and extremely resilient. It works perfectly in temperatures ranging from -33 °C to +55 °C and can also withstand up to 100 percent humidity. In addition, it is insensitive to strong solar radiation and has integrated lightning protection.

The safety system responds to gusts of wind and rapidly approaching storms; it signals changes in rope position, for example due to creep in the tower foundations, movement in glacier towers and worn parts. As soon as the rope leaves the center of the groove, the ropeway is automatically slowed down.

This reduces the kinetic energy present in the ropeway and consequently the hazard potential to a minimum. The decision to install an RPD system gives managers security for their ropeways and satisfaction in the technical standard they are providing for their customers. Guaranteed service quality is supplemented by lower costs, longer operating times in windy conditions and more operating days. Innovation to perfect the technology.

 Progressive and reliable



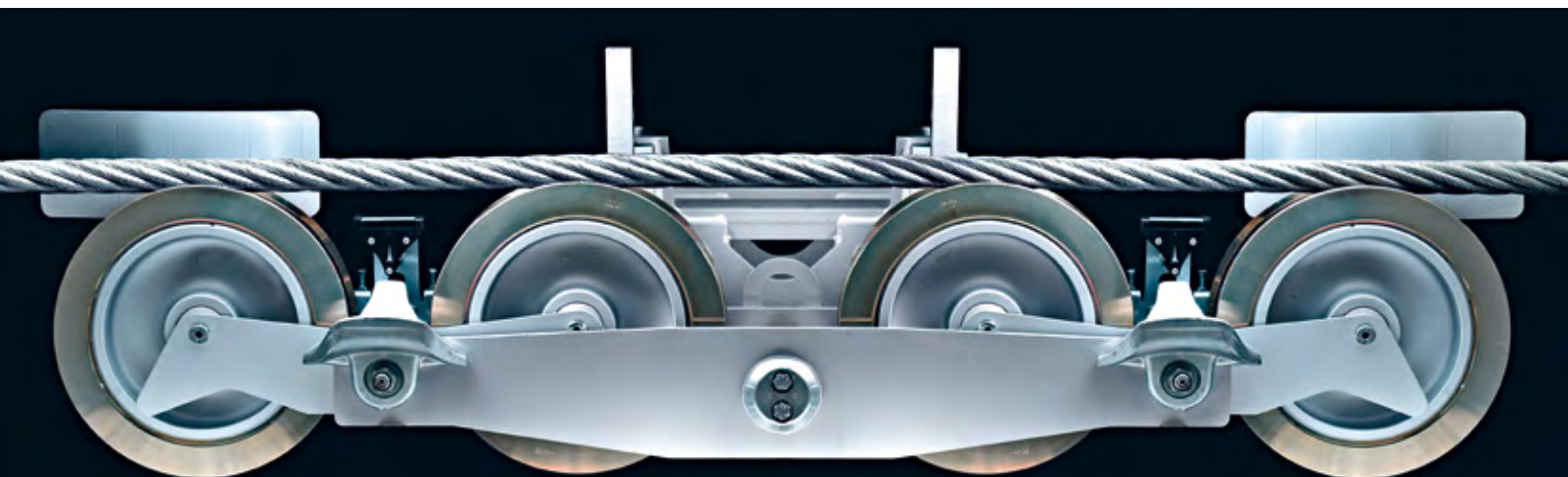
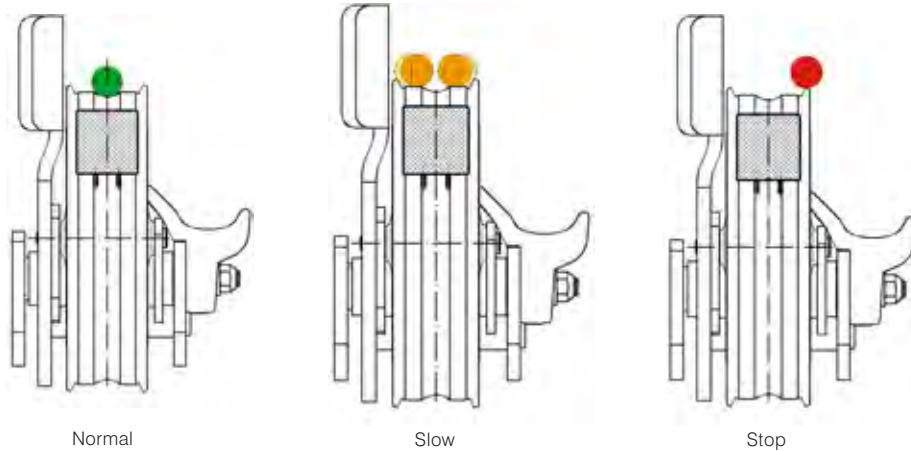
## Keeping track of safety

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As an absolutely reliable early warning system, the Rope Position Detector operates with non-contact sensors and a bus system from tower to tower. The fail-safe evaluation of electronic signals is guaranteed because any errors in the system are identified by the system itself. RPD is universal in application: One sensor suits all sheaves, sheave assemblies and sheave/rope diameter combinations.

RPD guarantees safety in every situation and in every location. From the bottom station, along the line to the top station and back again.

Real-time system checks can be performed conveniently and quickly from the control room before starting operations and during operations. RPD pinpoints the source of any error and indicates tower and switch number on the display as part of the fault report. That means maximum safety for the entire installation and for all passengers.





The RPD safety system can detect the following situations:

- rope deviation from the groove
- deropement beyond side plate
- deropement beyond rope catcher
- inward deropement
- blocked sheave
- excessive sheave liner wear
- lost sheave



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