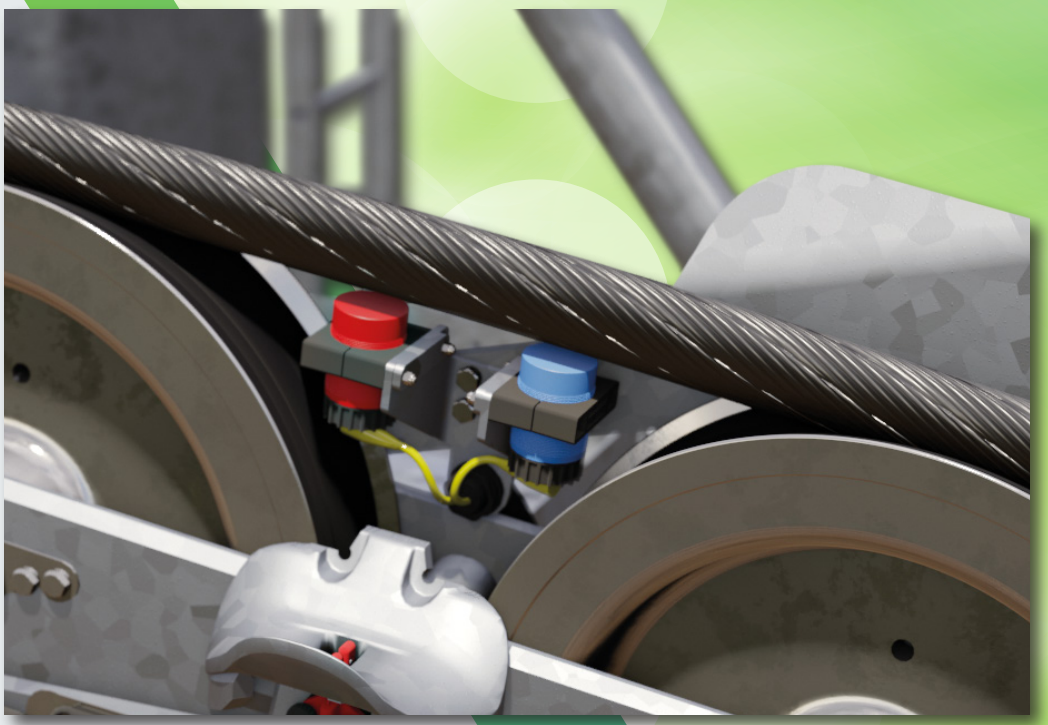
CPS EVO \ PRODUCT DATA SHEET

CPS (Cable Position Supervision) system prevents dangerous situations in the event of a lateral shift of the rope in the rollers of a roller battery.
The new CPS EVO is an evolution of CPS system which reduces its energy consumption and improves the safety of the operation and maintenance teams.



- on-site feedback from the early 2000s on the CPS function
- mandatory on detachable gondola lifts at 7m/s
- simplicity, reliability, efficiency
- reduced maintenance, no PLCs at the tower heads
- SIL3 certification

Compatible ✓new ropeways ✓existing ropeways

DESCRIPTION

CPS (Cable Position Supervision) function prevents dangerous situations by automatically slowing down the installation in the event of a lateral shift of the rope in the rollers of a roller battery, for example in case of strong wind or significant dynamic movement.

It can also stop the installation ahead of time in the event of a situation that could lead to rope derailment, even avoiding derailment in most cases, unlike the conventional line safety circuit (snap bar of the rope catcher) which stops the ropeway only after derailment has been detected.

These innovative sensors give the operator greater peace of mind.
The new CPS EVO is an evolution of CPS which reduces the energy consumption of this system and reduces the number of electronic devices on the towers.

FEATURES & BENEFITS

Features and performance
CPS EVO makes it possible to operate a ropeway at a speed greater than 6 m/s.
«Windslow» function automatically slows down the installation in case the rope shifts in the rollers of a roller battery.
Function available only if two sensors (red and blue) are installed.
«Too Far» function allows the early shutdown of the installation in the event of a situation that could lead to rope derailment.
Function available when using one or two sensors (red and/or blue).

A simple and reliable electrical architecture
No PLC at the tower head, sensor data is centralized in a single PLC in the control room.
Very small electrical cabinet dedicated to CPS EVO on the towers, or even no dedicated cabinet (shared with the main cabinet).

The power supply of CPS EVO sensors can be shared with the copper communication line.

Maintenance / Safety
Enhanced passenger safety by detecting dangerous situations caused by the shifting of the rope on a roller battery.
Maintenance is reduced and mainly limited to the control room for better worker safety.

Robustness
CPS EVO sensor was developed by a company specialized in industrial sensors with a high level of safety (aeronautics, medical, automotive, etc.), with exceptional resistance to lightning.

ENVIRONMENT

- The supplier is RoHS certified, which commits it to limiting the use of lead and other substances potentially dangerous to health and environment in their electrical and electronic products.
- A reduced number of electronic devices on the tower heads, which limits maintenance operations.
- Power of electrical cabinets at the tower heads reduced by more than 80% compared to CPS.