

The LEITNER CPS

Maximum safety and availability

The new CPS (Cable Position Supervision) system is a further development of the proximity switches used by LEITNER for cable position monitoring in North America for many years.

The CPS consists of a central evaluation unit in the drive station and inductive proximity sensors on the towers. Only two sensors are used on each roller battery; they are attached to its first and last twin rockers. The sensors detect if the rope is in the wrong position and report it to the evaluation unit. The main control system then immediately initiates the appropriate safety action (slow down or stop), depending on the condition of the rope. The evaluation unit and proximity sensors are networked via an ultra-modern safety bus system. Stop buttons on the towers and the fracture rods can also be connected to the bus system. Power is supplied to the towers via an additional supply cable.

BENEFITS The CPS can also be used on compression towers. The full range of monitoring functions can be used if additional pressure rollers are installed. The LEITNER CPS guarantees the highest level of rope position safety and system availability, because as soon as the rope leaves its groove, it is detected. The safety bus system reduces cabling work to a minimum. The safety bus also detects faults at each individual sensor, enables selective bypassing of any sensor, and thus reduces replacement work to a minimum. The CPS can be installed purely as an additional system without a safety function, or integrated as a redundant system into the ropeway's safety circuit.

TECHNICAL SPECIFICATIONS

- + Voltage supply:
 - 230V AC for central evaluation unit
 - 120V DC for the equipment on the towers
- + Signal transmission: Safety bus / diagnostic bus
- + Monitoring functions:
 - Rope course level 1 Action: Slow down
 - Rope course level 2 Action: Stop
 - Rope too close to sensor Action: Stop
- + Electrical class:
 - AK4 (fail-safe) for monitoring rope course level 2
 - AK2 for monitoring rope course level 1 and rope too close to sensor

