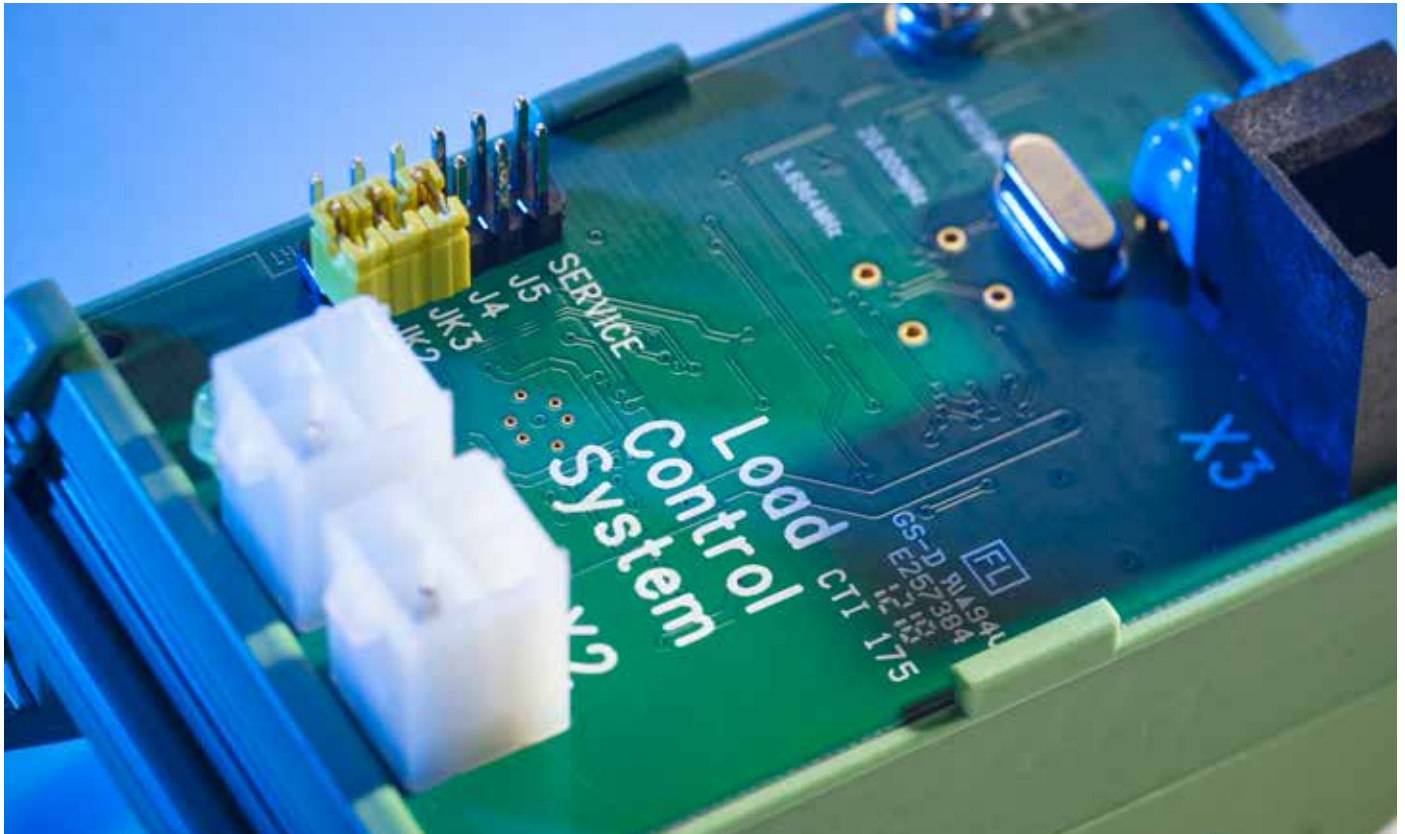


LCS

LOAD CONTROL SYSTEM

The expert for load monitoring





LCS

LOAD CONTROL SYSTEM

The expert for load monitoring



The LCS is the smart load control system from NEW LIFT. The system consists of the LCS control module and the respective sensor.

Commissioning can be performed in the machine room or directly from inside the car using the car operating panel. The linear calibration function facilitates commissioning with minimal reference load. The simple and uncomplicated connection to the lift system is performed via the LON bus of the FST controller.

MAIN FEATURES

- Commissioning by only one lift engineer
- Continuously adjustable load detection via LON bus
- Pre-torque information
- Optimization of group algorithm and evacuation function

TECHNICAL DATA

LCS dimensions (L x W x H)	90 x 49.5 x 51 mm
MR sensor dimensions (L x W x H)	230 x 80 x 40** mm
DMS sensor dimensions (L x W x H)	112 x 35 x 6 mm
Supply voltage	24 V DC (± 10 %)
Power consumption	60 mA

** Depending on the cable diameter

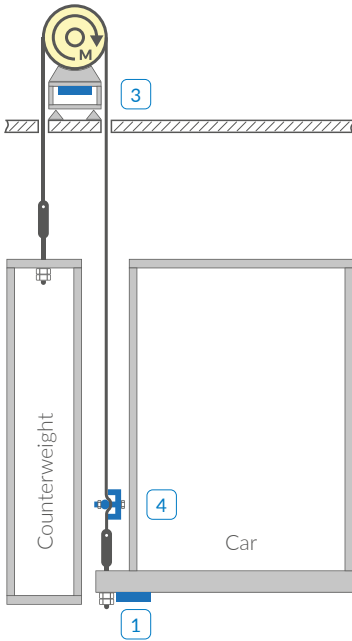
INSTALLATION OF THE SENSORS

DMS SENSOR

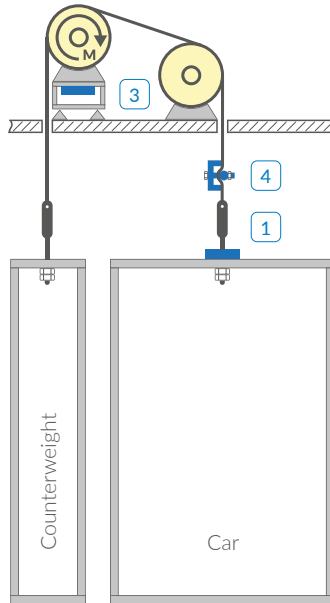
- 1 | on the car frame
- 2 | on the fastening point of the cable suspension bracket
- 3 | on the motor frame

MR SENSOR

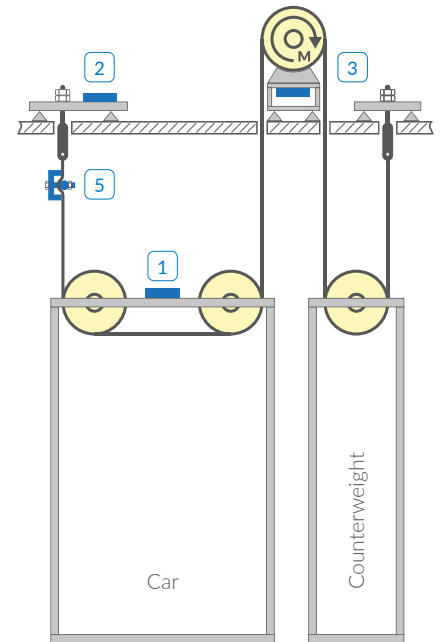
- 4 | on the car after the cable locks
- 5 | on the fastening point of the cable suspension bracket after the cable locks



— Suspension bracket 1:1 rucksack —



— Suspension bracket 1:1 regular —



— Suspension bracket 2:1 —

LCS VERSIONS

Decide for yourself if you want to use a multi rope sensor (LCS-MR) to measure rope tension or a strain gauge sensor (LCS-DMS) to measure bending stress.

FUNCTIONS

- Continuous load measurement for the functions empty load*, full load and overload
- Pre-torque function to avoid jerky starting with controlled cable lifts for DCP or CAN
- Compensation for compensation chains, dynamic friction and static friction
- Automatic drift compensation
- Optimization of group algorithm through evaluation of car load in real-time
- Load dependent evacuation sequence during emergency power operation

* Depending on the lift construction

SIMPLE COMMISSIONING

No full load measurement required thanks to linear calibration. Commissioning is done with only two points of measurement: empty load and reference load (e.g. one person). The complete configuration of the LCS is done with the FST controller. This means load capacity and switching thresholds for full load and overload in percent (e.g. 80% / 110%) can be set in the controller menu.

All settings can also be adjusted directly from the car with the hand-held terminal (HHT) or FST-APP. Reference points can also be entered on the car operating panel.

DELIVERY CONTENTS

- LCS analysis module
- Bus cable for connection to FSM-2 car top control module

Optional:

- LCS-DMS: Strain gauge sensor for installation on car frame or LCS-MR: Multi rope sensor for cable lifts with cable diameter between 6 and 16 mm.
- "Junction box" for connecting multiple load cells, e.g., with "floating" car floor

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