

MOD. MULTIROPE

MEASURE AND CONTROL OF LOAD ON ELEVATORS WITH ROPES FOR NEW LIFTS AND FOR MODERNIZATIONS

mod. MRL
Transducer



- For traction elevators and hoist systems with ropes
- Measures and controls the load on all the ropes at the same time
- Easy and quick to install
- Long term reliability

mod. 699
Electronics



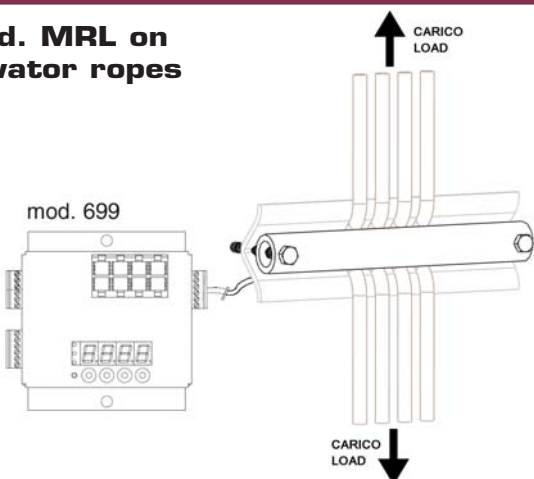
- For new and modernized traction elevators
- Good price

- Warehousing cost reduction: customer can change, on site, the rope diameter setting
- It can be fixed also when ropes are widely spaced
- Miniaturized: It can be installed even when cabin is at the top of hoistway and close to pulleys
- It can be used with ropes from 6 up to 16mm diameter and also belts

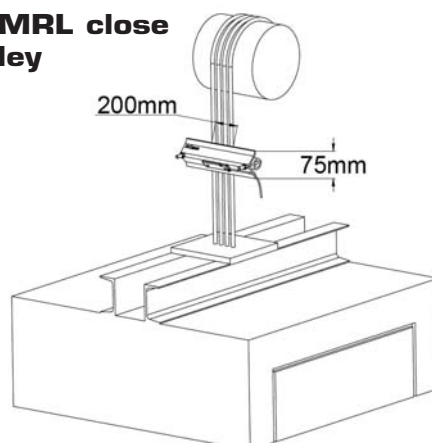


MRL with built - in 699 electronics

Mod. MRL on
elevator ropes



Mod. MRL close
to pulley



MULTIROPE SYSTEM

Multirope is a Load Weighing Device system that measures and controls the load on elevators and hoist systems with ropes.

Multirope system includes an MRL rope transducer, installed onto all the elevator ropes, and a 699 electronics.

The MRL transducer is fixed on all the elevator ropes, at the same time, close to their fixing point on the cabin roof.

The MRL transducer measures the load, in the cabin, by measuring the proportional tension on all the ropes and can be installed on new as well as on modernized elevators because it is easy to install and it has a good price.

Mod. 699 electronics is electrically connected to MRL sensor and it controls the load by means of its alarm levels that can also control the cabin booking procedure with multiple elevators in the same building.

Mod. MRL can optionally have a Mod. 699 built - in electronics (no connection cable and RJ connector are necessary and no analog and digital outputs are available).

The optional analog or digital output allows to optimize the winch torque for a better comfort and safety.

Mod. MRL ropes sensor:

- Easy and quick to install, by fixing just two screws.
- Miniaturized: the 7,5 cm overall highness allows its installation even when the cabin is on top of hoistway and there is not much room left relatively to the winch sheaves.
- Reduced warehousing costs: it is not necessary to buy, and keep on stock, as many MRL sensors as all the possible rope diameters because customer can easily modify, in the field, the rope diameter setting of MR transducers by changing the two screw adapters (option).
- MRL can be installed even with widely spaced ropes or with many ropes: ropes can be normally inserted into the MRL internal rope housing with a 200 mm width (option: MRL with 100 mm, 150 mm or wider).
- MRL can be used to measure load on elevators with belts instead of ropes (option).
- Output: 2mV/V typ.; Strain gauge impedance: 1Kohm, electrical connection cable: 2 m long with RJ connector.
- MRL sensor can be separately sold without 699 electronics for a direct connection, with customer's electronics.
- MRL sensor can have an optional 699 built in electronics: no connection cable and analog or digital outputs are available.
- Load onto MRL transducer: 100 Kg min., 2000 Kg max.
- Innovative: patented.
- Option: MRL sensor can be modified for installation onto belts instead of ropes.

Digital electronics mod. 699:

With microprocessor and with an high brightness 4 digits red LEDs display, it feeds power supply to the connected MRL sensor, 4 push buttons for parameter setting, it shows the cabin load in engineering units (Kg, daN, lb etc.) and load is controlled by means of 3 alarm levels with relays output.

- Easy to install: with easy to use calibration menu.
- Easy service: error codes help during installation and after sale service
- Reliability: with thermal drift and mechanical settlings compensation functions, towed cables compensation function, and relays block function when cabin moves.
- Alarm levels: 3pcs with NC/NO relays output (full load, overload, passenger presence sensing) are auto calibrated relatively to the nominal payload.
- Power supply: 12 or 24Vac/dc (in case of blackout calibrations are maintained in memory).
- Drive machine optimization: Multirope allows to optimize the winch torque for passenger comfort and safety.
- Options: Outputs: 0-5V, CAN Open, RS485, RS422, MRL can be modified for use with belts, built in 699 on MRL.

How to order:

MRL sensor		699 electronics:	
MRL width (mm)	Rope diameters:	Outputs:	Electrical connection:
100	Ø= 6-16 mm	02= 3 alarms levels (only available output for MRL with 699 built-in electronics)	RJ=connector for 699 connection with MRL
150		03= 3 levels with RS485/RS422	A=MRL with built-in 699 electronics
200 (MRL standard width)		04= 3 levels with CAN	
		05= 3 levels with 5V	

Example: MRL - 200 - 12 sensor MRL, 200 mm width housing for ropes, 12 mm rope diameter

699 - 02 - RJ: 699 with 3 alarm levels, 2 m long connection cable with RJ connector for MRL connection.

Technical specifications and prices may change without notice.

Bulletin: 090909 UK



DSEUROPE S.R.L.

Via F. Russoli, 6 - 20143 Milano (Italy)
Phone.: ++39028910142 Fax: ++390289124848
dseurope@dseurope.com www.dseurope.com