

FOCUS ON QUALITY
YOUR LIFT EXPERT



CATALOGUE APRIL 2022

LOAD MEASUREMENT

Overload Control System	131
Overload Control System	
WeightWatcher Light	132
Overload Control System	
WeightWatcher Light	
MultiRope	132
Overload Control System	
WeightWatcher Light Beam	133
Mobile Rope Load	
Measuring System	133

OVERLOAD CONTROL SYSTEM

The Henning over-load control system is based on a patented measuring principle. There is a sensor installed at each rope in the shaft or at the hitchpoint. These sensors no longer need to be calibrated using weights; the time-consuming usage of weights is no longer necessary. Storekeeping, too, is simplified: one sensor module matches different rope diameters or eye bolt diameters. The rope tension setting assistant integrated in the software is unique and amazingly simple: it only takes a few minutes to achieve an optimum setting of a complete set of ropes. This and the permanent rope tension monitoring feature allow the undesired and needless wear of traction sheaves and ropes to be prevented in a reliable manner.

HIGHLIGHTS: • Calibration with weights not necessary thanks to the patented measuring principle • Suitable for different rope diameters and rope types and belts • 4 programmable alarm relays or CANopen (depending on the evaluation unit) • Up to 12 rope sensors per evaluation unit • Integrated slack rope alarm • Permanent monitoring of the load distribution • Equipped with USB interface and free PC software • Software wizard for the adjustment of the optimum single rope tension to avoid unnecessary wear • automatic compensation chains and rope measurement

METHOD OF FUNCTION: Every single rope is fitted with a load sensor. Either directly at the rope or at the hitchpoint. The sensors are simply plugged into the evaluation unit AE12 which – without any calibration by weights – immediately indicates the overall

weight and the individual rope loads. The desired alarms are set via the display and keys of the unit or via the free PC software. The unit then triggers the alarms for up to 4 different load limits, slack rope conditions and any diverging individual rope loads.

Installed and ready for operation within minutes!

LOAD SENSOR LS: Design of the rope load sensor LS follows a patented measuring principle ceasing the expensive calibration of the elevator by test weights. The rope load sensor suits 3 rope diameters and is ready for use. It is provided with a mains lead of 2,5m length.

LOAD SENSOR RC: Our RC-series of "Donut"-load sensors are installed directly at the hitchpoint. For this reason Henning load sensors RC „Donut“ are ideal for new elevator installations and also for modernization. On elevators with 1:1 suspension, the Donut-Load sensors are mounted on top of the car, on elevators with 2:1 suspension the load sensors are mounted at the hitchpoint on the car side. Our RC-series of "Donut"-load sensors are able to measure absolute weights at each rope or belt, thereby making calibration with weights redundant. Due to the engineering and the design we have chosen, each load sensor of our RC-series covers a wide bandwidth of different loads and rope diameters. The sensors are ready for immediate use after connection with an evaluation unit AE12 without the time consuming entering of calibration parameters for the sensors.



WeightWatcher AE12



Donut load sensor RC 1000



* Rope load sensor LS 2000 (6–16mm):

Rope load sensor for special use with extended measuring range. Inclusive pre-calibrated for rope diameters- and Measuring ranges.

Please always specify for the pre-calibration: cabin weight (kg), cabin load (kg), type of suspension number of ropes (amount) and rope diameter (mm).

OVERLOAD CONTROL SYSTEM WEIGHTWATCHER

Item No.	Description
68000455000	AE12
68000455002	AE12 analogue
68000455005	AE12 CANopen
68000455250	Donut load sensor RC 300
68000455255	Donut load sensor RC 500
68000455260	Donut load sensor RC 1000
68000455265	Donut load sensor RC 3500
68000455500	Rope load sensor LS 1
68000455400	Rope load sensor LS 2
68000455850	Rope load sensor LS 2000*

ACCESSORIES

Item No.	Description
68000455020	Casing AE12/AE16/AE8
68000455006	Power supply 15W, 230V for AE12/AE16/AE9/AE12 Software
68000455505	LS connection cable extension up to 20m
68045000113	Additional cable screwing in housing for AE12/AE16/AE8

20



AE8 light standard



Donut load sensor RC 1000 light



WeightWatcher light Multirope

OVERLOAD CONTROL SYSTEM WEIGHTWATCHER LIGHT

The load measuring sensors LS Light round off the existing product line of Henning load measuring systems in the reasonably priced segment and are suitable for almost all fitting situations. Thanks to its small size the LS sensor even fits where shaft ceilings are low and ropes are closely spaced. The applications in the range of 4 to 13 mm rope diameters also meet requirements. Up to 8 or rather 16 sensors can be connected to the evaluation unit Light using the 2.5 m long cables.

HIGHLIGHTS: • One type of sensor for rope diameters ranging from 4 to 13 mm • Extremely compact rope load sensors • freely programmable output relays • Measurements possible on up to 8 or 16 ropes

METHOD OF FUNCTION: During installation the pin of the retaining strap is opened and the sensor is put against the rope. The retaining strap is then closed again and the clamping screw is tightened up until the rope is pressed against the sensor body. An exact tightening torque must not be applied. Special tools are not needed. The LS Light rope load sensors are connected to the evaluation units AE 8 Light or AE16 Light. The installation with plugs (no terminals) saves time and prevents mistakes being made during connection. After sensor calibration, the evaluation unit Light displays the load of the lift car. A connection to the control system is effected using freely programmable alarm relays. As soon as the parameters for the output relays are entered via the built-in keys, the unit is ready for operation.

OVERLOAD CONTROL SYSTEM WEIGHTWATCHER LIGHT

Item No.	Description
68100456100	AE8 light standard
68100456102	AE8 light analogue
68100456105	AE8 light CANopen
68100456010	AE12 light standard
68100456012	AE12 light analogue
68100456015	AE12 light CANopen
68100456000	AE16 light
68100456002	AE16 light analogue
68100456005	AE16 light CANopen
68000456350	Donut load sensor RC 300 light
68000456355	Donut load sensor RC 500 light
68000456360	Donut load sensor RC 1000 light
68000456365	Donut load sensor RC 3500 light
68100456500	Rope load sensor LS light

ACCESSORIES

Item No.	Description
68000455020	Casing AE12/AE16/AE8
68000455006	Power supply for AE12/AE16/AE8
68045000114	Additional cable screwing in housing for AE12/AE16/AE8 light

OVERLOAD CONTROL SYSTEM WEIGHTWATCHER LIGHT MULTIROPE

For the development of the latest product of the Weight-Watcher Light series, the MultiRope measuring system, our development division could rely on the knowhow gathered over many years. Great store was set by the ease of installation and the request put forward by many customers to provide a reasonably priced but high-quality overload measuring system which meets the requirements of EN 81. The applications in the range of 4 to 26 mm rope diameters also meet the requirements. Measuring ranges of up to max. 10,000 kg (optional for Multi-Rope 300) allow a wide variety of applications.

HIGHLIGHTS: • Two types of sensor for 200 and 300 mm clamping widths • For 4 to 26 mm rope diameters • Measuring range up to 10,000 kg • 2 freely programmable output relays • Integrated evaluation unit

METHOD OF FUNCTION: Only a few minutes are needed to install the MultiRope sensors: The installation only requires the screws of the retaining strap to be loosened and the sensor to be put against the rope. The retaining strap is then closed again and the screws are tightened up until the rope is pressed against the sensor body. A specific tightening torque must not be applied. No special tools are required. Thanks to the integrated evaluation unit no additional cables are needed to connect the sensor and evaluation unit. The unit can be configured using three keys and the 4-digit LED display. The unit is connected to the control system by means of 2 freely programmable alarm relays. After the MultiRope sensor has been calibrated, the evaluation unit displays the lift car load. As soon as the parameters for the 3 output relays are entered using the built-in keys the unit is ready for operation.

OVERLOAD CONTROL SYSTEM WEIGHTWATCHER LIGHT MULTIROPE

Item No.	Description
68200456600	Multirope 200
68200456700	Multirope 300
68200456605	Multirope 200 CANopen
68200456705	Multirope 300 CANopen

OVERLOAD CONTROL SYSTEM WEIGHTWATCHER LIGHT BEAM

The WeightWatcher Beam 1200, 2200 and 5000 load sensors are therefore especially compact and handy facilitating the mounting in almost every installation siting. You won't have a problem shaft heads of little height.

HIGHLIGHTS: • very attractive price-performance ratio • simple mounting • three sensor type suits different loads • 2 programmable output relays • integrated evaluation unit • integrated suspension chain compensation and rope mass with multiple suspension

METHOD OF FUNCTION: The WeightWatcher Beam sensor are mounted within a few minutes: Due to integrated evaluation unit there is no need for additional wiring between sensor and evaluation unit. After calibrating the WeightWatcher Beam sensor, the evaluation unit indicates the load in the cabin. The unit is ready for operation after entering the parameters of the 2 output relays by the integrated buttons.



WeightWatcher Beam 1200

OVERLOAD CONTROL SYSTEM WEIGHTWATCHER LIGHT BEAM

Item No.	Description
68300456200	Weightwatcher Beam 1200
68300456225	Weightwatcher Beam 2200
68300456250	Weightwatcher Beam 5000
68300456205	Weightwatcher Beam 1200 CANopen
68300456230	Weightwatcher Beam 2200 CANopen
68300456255	Weightwatcher Beam 5000 CANopen

MOBILE ROPE LOAD MEASURING SYSTEM

Inadequately set ropes and excessive overall weights cause an undesired and premature wear. The Weight-Watcher rope load measuring system allows ropes / belts to be set and lift car and counterweight loads to be weighed in no time at all. The LSM Belt sensor especially developed for belts allows measurements to be carried out on 30 to 60mm wide belts.

The integrated rope setting assistant guides you through the rope setting procedure and records every measurement with a report that can later be printed out on the PC. This makes the mobile WeightWatcher an optimum tool for your service work. Apart from weighing the lift car and coun-

terweight loads, all single rope loads can be displayed and adjusted within a few minutes to their optimum settings using the integrated rope setting assistant. Optional extension possible with helpful features: graph storage allows measurement, storage and evaluation of weighing the lift car and counterweight loads, throughout car use there are shown counterweight load measurements in proportion between lift car and counter weight.

The variants with BlueTooth (using the available Android App) communicate with all Android smartphones and tablets and therefore permit a topical handling.



Mobile evaluation unit MSM 12 extended

MOBILE ROPE LOAD MEASURING SYSTEM WEIGHTWATCHER

Item No.	Description
68400455105	Mobile evaluation unit MSM 12 basic
68400455106	Mobile evaluation unit MSM 12 extended
68400455107	Mobile evaluation unit MSM 12 premium
68400455600	Mobile rope sensor LSM 1
68400455101	LSM 1 set incl. transport case
68400455700	Mobile rope sensor LSM 2
68400455201	LSM 2 set incl. transport case
68400455620	LSM connection cable extension up to 20m
68400455351	Mobile rope sensor LSM XL
68400455301	LSM XL set incl. transport case
68400455353	Spare cable up to 1,5m (further extensions upon request)
68400455815	LSM Belt Set OTIS
68400455805	Mobile rope sensor LSM belt OTIS
68400455816	LSM belt set Schindler
68400455806	Mobile rope sensor LSM belt Schindler

ACCESSORIES

Item No.	Description
68400455155	Curve storage (optional software for MSM 12)
68400455160	Counterweight compensation measurement (optional software for MSM 12)
68400455096	USB charging adapter for MSM 12
68400455097	Qi-Charging station for MSM 12
68400455099	Protective bag for MSM 12



LSM1 set



LSM XL set incl. transport case

Stingl Systems GmbH
Dimbacher Strasse 25
D-74182 Obersulm-Willsbach
Germany

Phone +49 (0) 7134 / 13797-13
Fax +49 (0) 7134 / 13797-11

www.stinglonline.de
export@stinglonline.de
<https://shop.stinglonline.de>