GIGASENSE

Vision ZERO accidents in the industry

Keeping people and equipment safe since 1951

LKVE/LKVEi – FORCE TRANSMITTER

The LKVE/LKVEi is a Force Transmitter mounted to a stationary rope part. The LKVE/LKVEi fully conforms to IP 67, offers high repeatability, and is made for use in aggressive industrial environments.

Quality | Maintenance free | Robust | Plug & Play

LKVE/LKVEi – FORCE TRANSMITTER

Range of application

The LKVE/LKVEi combined with a CSM Crane Safety Monitor is perfectly suited as overload protection system for lifting equipment. The LKVE/LKVEi is delivered for a range of forces up to 16000 kg in single rope part and from 5 mm to max. 44 mm rope diameter.

The LKVE, together with a large format display, can easily act as a stand alone load indication system.

Function

The LKVE/LKVEi electronic overload protection system consists of a force transmitter with amplifier and an electronic signal processing unit. The rope is deflected through a slight angle between the two wheels and the clamping jaw. When loaded, the rope tends to straighten and applies a force on the load cell.

The power from the load cell is converted into a signal, proportional to the power on the load cell. The LKVE has an output signal of 4-20 mA and the LKVEi has an output signal of mV/V.

Safety

The LKVE/LKVEi is installed directly on the rope and there is no need for recalibration when the rope is replaced.
The LKVE/LKVEi does not interfere with the construction of the lifting equipment.

Thanks to the clever design of the clamping jaw, the measurement is not affected by the changes in the rope diameter that might occur after some use.

The load cell can be mechanically overloaded by 100% nominal load without affecting the accuracy of measurement.

Technical data

Capacity (single rope part)
Up to 16 ton metric
35273 lb

Wire diameter
Up to 44 mm
1.73 inch

Overload safety
Can be overloaded by 100%

Protection class
IP 67

Temperature range
-30°C to +70°C
-22°F to +158°F

Linear deviation
0-4.5% *

Repeatability
0.1-1.5% *

**Defined by rope characteristics*

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GIGASENSE

Gigasense products within Force Measurement and Crane Safety are well known high quality products, built from many years' experience and used by leading heavy duty industry around the world.

Gigasense products meet the highest demands of performance level requirements.

Gigasense are represented by selected local distributors in more than 30 countries on six continents.