GIGASENSE

Vision ZERO accidents in the industry

Keeping people and equipment safe since 1951

LKVX OVERLOAD GUARD

The LKVX Overload Guard is designed for use in potentially explosive atmospheres.
It is easy to install without disturbing the crane.
Very well suited for overhead traveling cranes, container handling equipment and haulages where operators may not know when they have an overload condition.

Quality | Maintenance free | Robust | Plug & Play

LKVX OVERLOAD GUARD

Range of application

Designed to serve as both an overload guard and a slack rope switch, it's the ultimate solution for various lifting equipment applications. With a robust design capable of handling forces up to 16000 kg in a single rope part and accommodating line diameters of up to 44 mm, the LKVX adapts effortlessly to your specific lifting needs.

Function

The LKVX operates by attaching to a stationary rope part, utilizing deflection between two wheels and a clamping jaw. As the loaded rope tends to straighten, force is applied to the clamping jaw and pull rod. Once the pre-set switch value is reached, the pull rod triggers a micro switch, establishing a closed or open circuit, ensuring precision functionality.

To achieve unparalleled accuracy, the LKVX features case-hardened wheels meticulously designed with precision rope grooves. The wheels and clamping jaws are equipped with rope tracks at 4 mm intervals to ensure a proper fit with the rope diameter. It's important to note that these wheels serve as dynamic support points rather than traditional wheels.

Even under full rope load, the peripheral movement on the wheels is minimal, measuring only about 0.6 mm, including rope extension.

Safety

The Gigasense LKVX ensures utmost safety by not directly affecting the construction of the lifting equipment. The locking device prevents unauthorized interference with switch settings, and its pressure-tight design protects against dust, dirt, damp, frost, and atmospheric conditions. Specially designed washers and spring elements resist fatigue, and the LKVX maintains its set switch value even after fitting to a new rope. The spring washers are designed to resist overload.

Ex Protection type

For Zone 1 and 2 (Gas):
Ex II 2G Ex d IIC T6 Gb
For Zone 21 and 22 (Dust):
Ex II 2D Ex tD A21 IP66 T80°C
CABLE: 5 m cable H05VV-F 3 x 0.75 mm2. Ø 6,6 mm

Technical data

Capacity (single rope part)
40–16 000 kg
88–35 273 lb
5–44 mm rope diameter
0.19–1.73 inch

Max. Contact load
250 VAC, 5 (3) A
400 VAC, 3 (2) A

Repeatability
±1.5 of the max. capacity

Protection class
IP 67

Temperature range
-25 to +60°C
-13 to 140°F

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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.