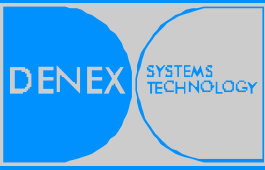# DENEX CopySensor™ Gripper LED

for use in gripper conveyor applications

This low cost sensor will provided accurate counting for years to come. It does not wear like normal mechanical fingers sensors. You can install and forget this sensor!

- **Compatible - directly replaces mechanical or photocell sensors**

- **Counts thin or thick products without adjustment**

- **Proximity sensor input - eliminates counts between grippers**

- **DIP switch configurable - can be optimized for the count application**

- **CAN- and USB communication**

The markets most complete gripper sensor is equipped with all needed features for a long-term accurate counting. The microprocessor handles the signal evaluation by using software based on 25 years experience. A unique principle based on several DENEX patents makes the Gripper LED insensitive to color or sunlight. It has an input for speed sensor to handle double papers in the gripper and conveyor stops without extra counts. The output and power requirements are compatible to the finger sensors and other gripper sensors on the market.

DENEX CopySensor™ Gripper LED is also the right choice when replacing older DENEX CopyCounters like LCC70, Gripper and Gripper II mounted on gripper conveyors. Brackets for most types of conveyors are available for a fast replacement of older sensors.

Specification: DENEX CopySensor™ Gripper LED

DENEX Part. No: 51N1100

Accuracy: Better than 1:100000 error rate

Maximum Count rate: >360.000 copies/hour

Maximum product speed: 5m/s

Minimum distance to product stream: 20mm

Minimum air-gap between copies: 5mm @ 40 mm distance to product edge

Distance to backedge of product: 120 - 150 mm

Operating system: RISC processor

Pulse width: 5 ms, 20 ms or customized setting

CAN Interface: 10, 20, 50, 100, 125, 250, 500 kbit

USB Interface: For customized set up

Output signal: Opto isolated transistor 12V to 30V max 500mA

Speed sensor input: 4.5 - 28 VDC, 3mA max 2,5 kHz

Light System: IR-LED with ambient light suppression and power monitor with laser safety monitor

Laser safety class: Not a laser product. Harmless

Estimated lifetime of LED: > 100000h @ 20C

Power supply: 19 - 30 VDC, 180mA typ.

Matching Connector: Amphenol-Tuchel C91A T 3476 001
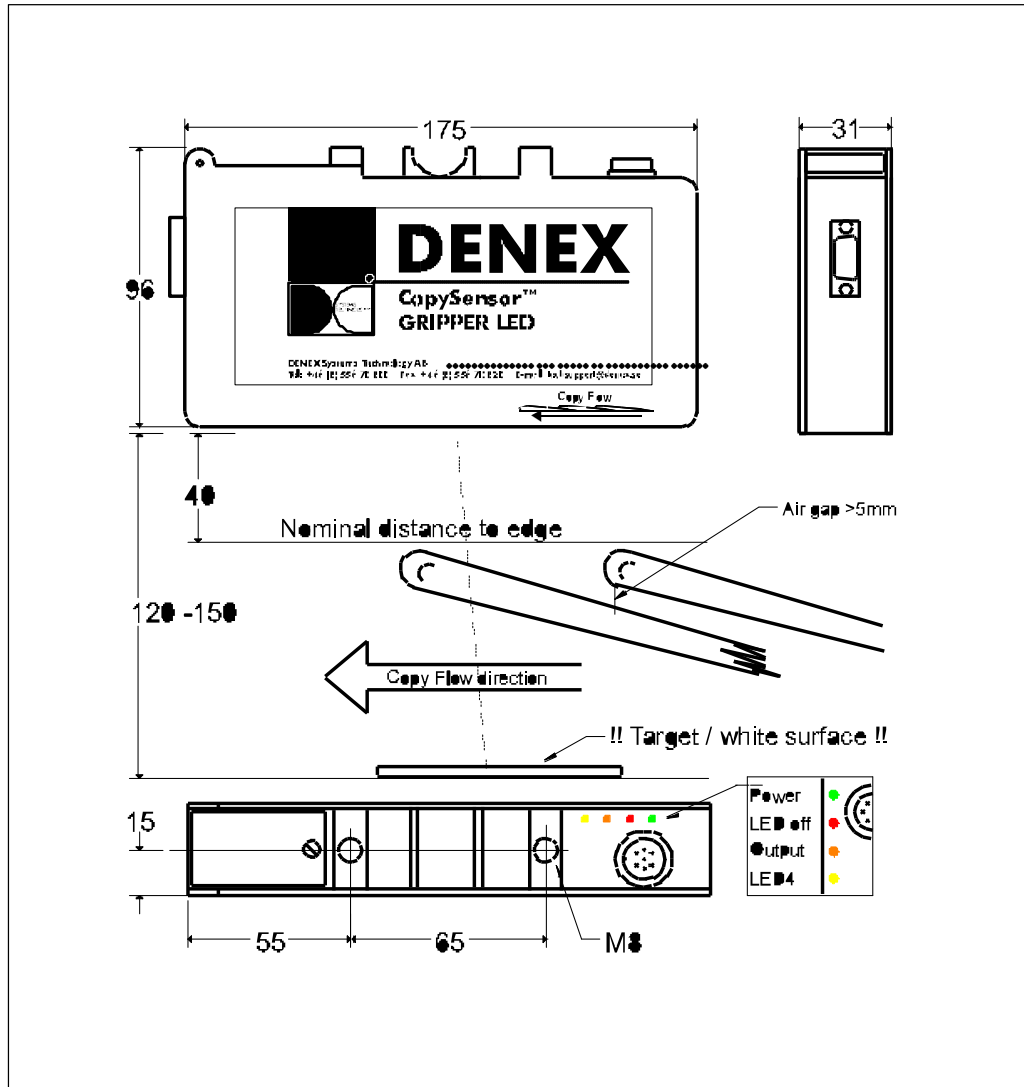
Weight: 800 g

Size: 175 x 96 x 31 mm

Temperature range: +10 to 40 C

Mechanical dimensions