



DENEX Laser CopySensor™ PRO

for use with computer interface and demanding counting applications

The PRO Sensor is designed to handle the stacker counting of inserted, gapped or bulky products. The operating parameters, such as sensitivity, are adjusted remotely via a serial link.

- RS232 serial link interface - integrated directly with stacker computer
- Adjustable operating parameters through serial interface
- Customized applications
- Speed sensor input - provides a fixed distance blocking zone



The serial communication opens new possibilities. Settings like Blocking Function and Zone, Sensitivity, Output Pulse width, Simulation, can all be set up via the serial link. It can also be used to make a Self Test at start up of the stacker.

The small size will make that the PRO fits in most of the different brands of stackers on the market.

The unique principle based on several DENEX patents makes the PRO insensitive to color or sunlight. The straight laser beam will ensure a perfect timing between the edge and the output pulse within the whole working range.

Specification: DENEX Laser CopySensor™ PRO

DENEX Part. No. 51M2100

Accuracy: Better than 1:30000 error rate

Maximum Count rate: >1.000.000 copies/hour

Maximum product speed: 1m/s for thinnest products, up to 5 m/s otherwise

Maximum stream thickness: 70 mm

Minimum product thickness: 0,2mm(standard range)

Distance from conveyor: 100 mm

Minimum spacing:

between copies 1-5 mm depending on thickness, speed and pulse width

Stream conditions: All conditions, single stream as well

Operating system: RISC processor

Pulse width: 5ms (preset)

Output signal: 2 pcs. Opto isolated transistor 12V to 30V max 150mA.

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

Serial link: Standard RS-232 C, 3 wire
9600 baud, 8 data bits, 1 stop bit,
No parity

Analog input: 0 - 5 VDC

Laser System: Visible, switched laserdiode, 650nm,
with laser safety monitor

Laser safety class: Class II (harmless if not stared at
for long time)

Estimated lifetime of Laser: 30000 - 100000h @ 20C

Power supply: 19 - 30 VDC, max. 200 mA

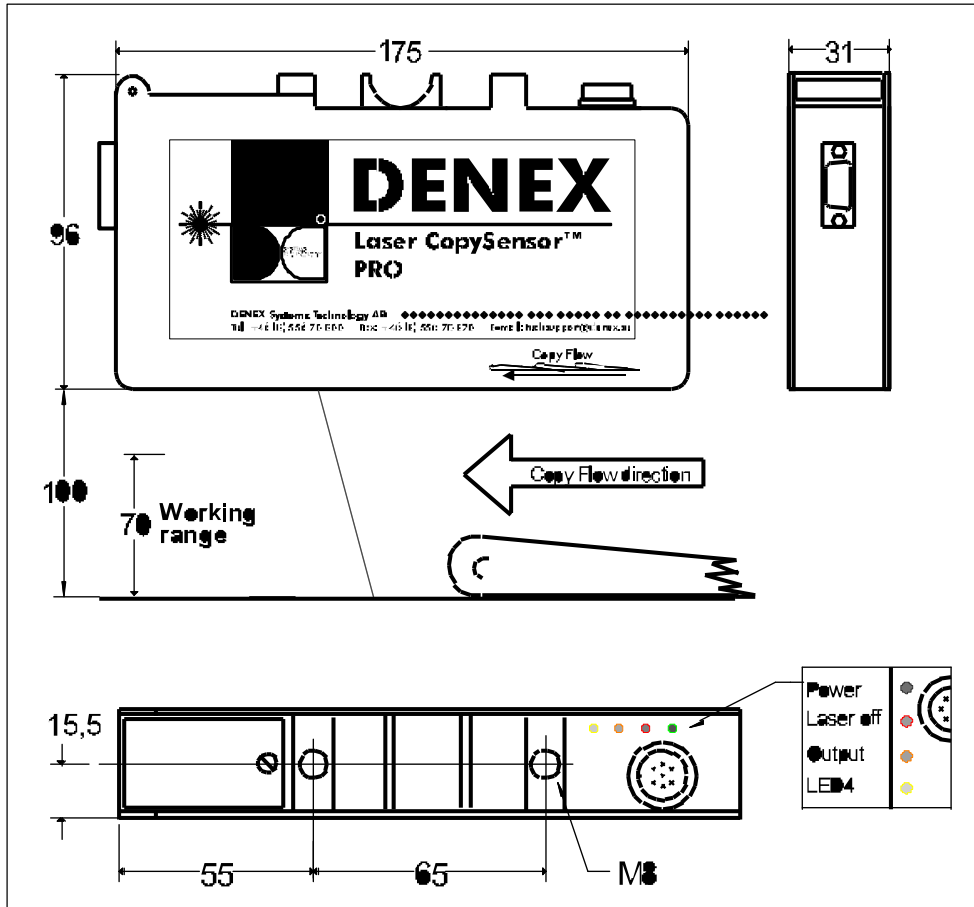
Matching Connector: HD DSUB 15-pin female

Weight: 780 g

Size: 175 x 96 x 31 mm

Temperature range: +10 to 40 C

Mechanical dimensions



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