# **OPTICAL BELT SCALE FLO-3D II**

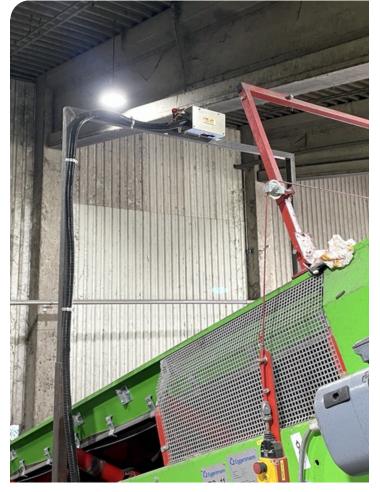


### **Optical Belt Scale FLO-3D II.**

The smart volume flow meter for bulk materials on belt, vibratory, or bucket conveyors.

Accuracy: ±5%.





Waste measurement on a conveyor belt

#### **Advantages:**

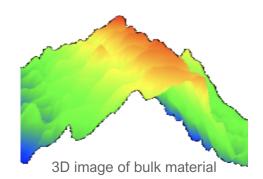
- Robust design
- Easy installation and commissioning
- Inexpensive
- Low maintenancee
- Dust protection housing

#### **Smart Bulk Solids Flow Meter**

This FLO-3D II optical belt scale is an easy-toinstall alternative to a belt scale, especially for lightly loaded belts, vibratory or bucket conveyors. The volume flow meter is ideal for e.g. internal control applications, food, RDF, waste and much more.

The EmWeA FLO-3D II sensor is mounted above the conveyor. The integrated 3D camera continuously takes three-dimensional images of the bulk material. The profile of the empty conveyor is "taught" with the help of a zeroing function.

The internal display of the FLO-3D II sensor shows the current volume flow in m<sup>3</sup>/h. t/h can also be displayed if the bulk density of the measured material is constant. Binary inputs and outputs, an analog output, and Ethernet enable connection to your PLC.



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#### **Technical Specifications**

**Sensor display:** 8 LEDs, yellow/green Four digit numeric display

Supply voltage: 100 ... 240 V AC ±10 %; 47 ... 64 Hz

Ambient temperature: -10 °C ... +50 °C Optional 0 °C ... +70 °C

Housing material: Sensor body: Die-cast aluminum Optics window: PMMA Display window: PC Dust protection housing: Stainless steel Junction box: PC

Sensor connections: M12 plug-in connectors IP 67

**Junction box connections:** Terminal strips RJ45 for PC connection **Degree of protection:** Sensor: IP 67 Junction box: IP 65

Inputs: 2 binary (24 V PNP) for belt stop and product change

**Outputs:** 1 analogue (4-20 mA or 0-10 V) and 1 binary (24 V PNP), or 2 binary (24 V PNP); selectable

**Binary output functions:** Counting pulses Min. threshold Max. threshold

**Analogue output functions:** Volume flow rate (m<sup>3</sup>/h) Mass flow rate (t/h, at constant bulk density)

Ethernet port: PC setup software\* Data transfer

\* A Windows® PC is required to set up the optical belt scale. No PC is required for normal operation.



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