





Speed measuring range 0.01...10 m/s



Stored graph «30 seconds before the accident»



Remote control (RS485, Ethernet)



Event Data Recorder

# Conveyor speed monitoring

system DS-77 is designed to prevent and analyze possible emergency situations on the conveyor: determine slippage, transverse belt tearing, overload by the transported material, control the acceleration of the conveyor belt at the conveyor start.

## Analysis of emergency situations

is performed according to the event data recorder and allows to reliably identify the reasons of emergency situations. The event recorder stores streaming information about the movement of the belt in non-volatile memory. In case of emergency conveyor stops, a graph of the speed change over the last 30 seconds before the stop is displayed.



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## **Algorithms**

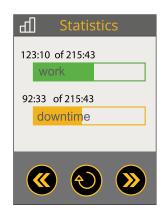
Four algorithms are implemented in the software including «Customer algorithm» which made upon customers request.

#### Remote control

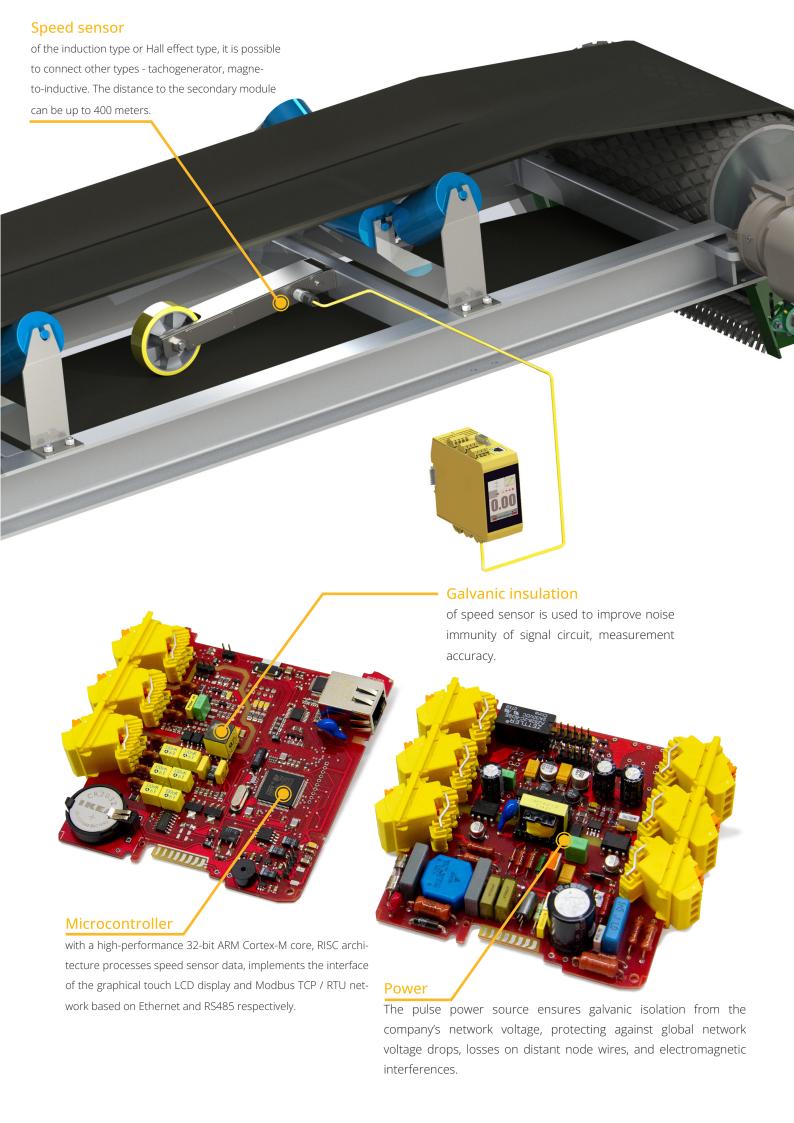
Full access to display and configure all parameters via ModBus RTU (RS485) and ModBus TCP (Ethernet) protocol.

### **Statistics**

Keeps statistics of the conveyor and device operation time (for a specified period of time), records of emergency stops, analysis of line performance.







## **Technical data**

## Speed sensor

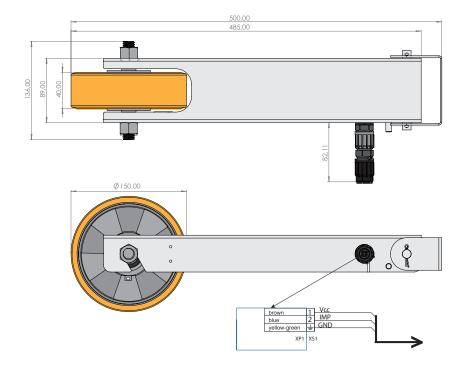
### 6D103 / 6D103H

Supply Voltage	10-30 VDC
Temperature Rating	-40 +85 C°
Protection	IP67
Belt measured speed range	0.01 10 m/s
Speed sensor output	PNP
Principle of operation	Hall effect / Inductive
Trailing arm	AISI 201 stainless steel
Sensor wheel	Polyurethane tread diam. 150mm
Weight	4,6 kg

## **Speed Monitor**

### DS-77-IP30 / DS-77-IP30-24

24 VDC / 220VAC
5 Watts
-20 +70 C°
IP30
3 x 1A @ 250 VAC
14 AWG / 2,5mm <sup>2</sup>
16 AWG / 1,5mm <sup>2</sup>
NPN / PNP / AC
2
Modbus RTU / TCP
0,4 kg











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