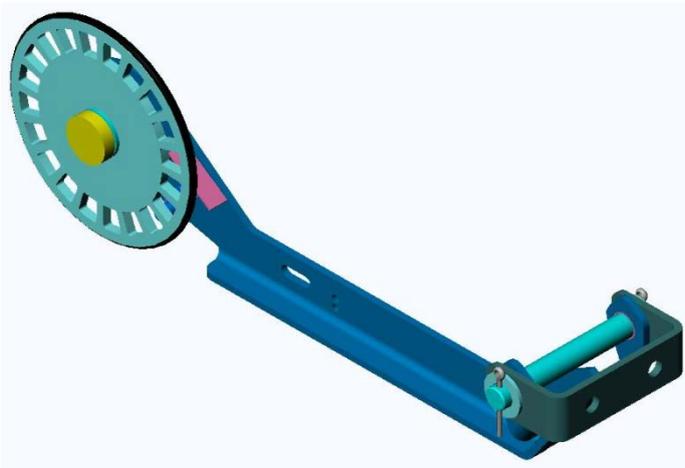


Speed Sensor FGA 20RSLE



- **Cost-efficient integration**
- **High reliability**
- **Maintenance-free storage and sealings**
- **Easy handling**
- **Completely made of galvanized steel or stainless steel**
- **Legal-for-trade variant for MULTIBELT®-type belt weighers**
- **ATEX optional category 2GD (zones 21, 22, 1 or 2)**

Application

The FGA 20RSLE speed sensors are designed for measuring the belt speed of belt conveyor systems.

They are used as optional equipment for MULTIBELT®-type belt weighers.

A customized speed sensor can be used in ATEX zones 21, 22, 1 or 2.

Design

The speed sensor consists of a rocker that can be pivoted around an axis. The axis is mounted in a bracket that is attached to the machine (belt conveyor) to be monitored. The measuring wheel is attached to this rocker and runs slip-free on the belt to be measured. The belt speed is measured as a frequency signal through windows in the measuring wheel and with one or two (legal-for-trade) proximity sensor/s and processed using an evaluation device.

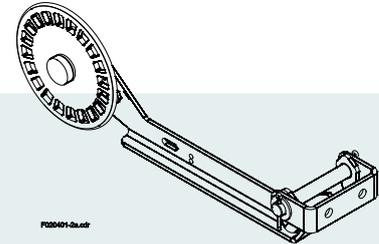
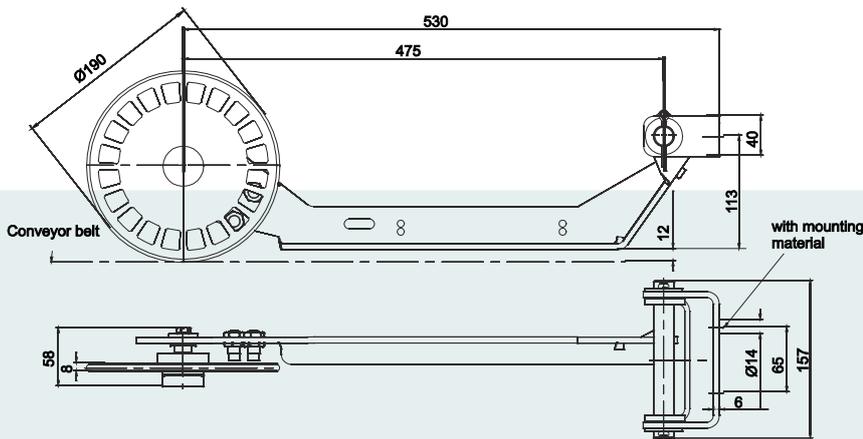
The FGA 20RSLE speed sensor is manufactured entirely of a highly corrosion-resistant galvanized steel and in the ATEX – certified model made of 1.4301 stainless steel.

Function

The pulse wheel runs on the interior of the empty, returning belt of a belt feeder system with a rubber ring. Under its own weight, the wheel is friction-locked against the belt and is made to rotate by the belt movement. The non-slip motion means that the wheel circumferential velocity corresponds to the belt speed.

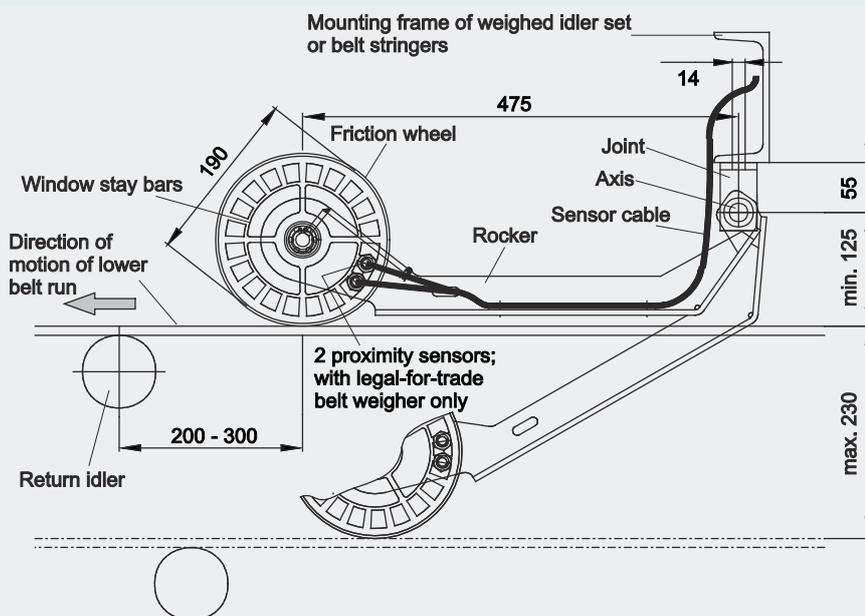
The rotational speed of the wheel is registered by a sensor that records the speed by means of transmitting a signal through an alternating series of windows and bars, recording a frequency that corresponds to the belt speed of the belt conveyor system. This frequency is transmitted to the evaluation electronics where it is analyzed.

Dimensions [mm]



Operating temperature	-20 °C ... +50 °C
Operating temperature, ATEX	-20 °C ... +50 °C
Belt speed	< 3.5 m/s
Pulses	20 pulses per revolution = 33.5 pulses per meter of belt
Output signal	Namur
Weight	4.55 kg
Legal-for-trade type	2 proximity sensors
ATEX (option)	Zone 21, 22, 1 or 2

Installation of the FGA 20RSLE



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