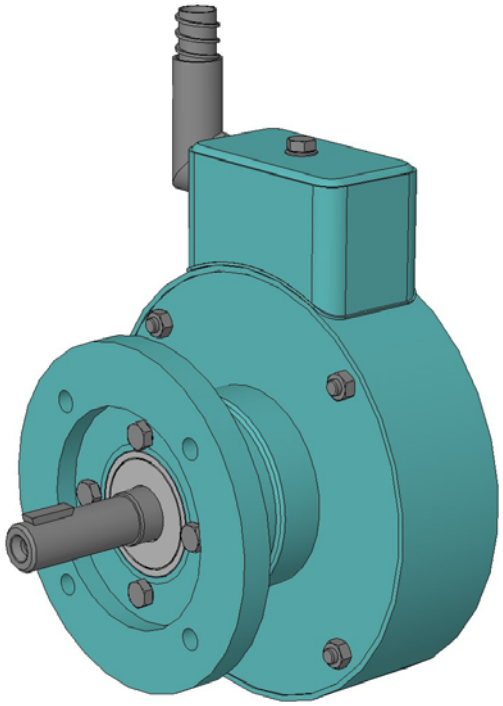
FGA 30R2 Speed Sensor



- **High degree of reliability**
- **Robust design**
- **Maintenance-free storage and seals**
- **Made entirely of steel**
- **Legal-for-trade variant for MULTIBELT-model beltweighers**
- **Designed for operation with friction wheel and rocker arm**
- **Drive system with clutch available**
- **Successor to the FGA 30R with identical connection dimensions**

Application

FGA 30R2 model speed sensors are designed for measuring the belt speed of belt feeder systems.
They are optional equipment for beltweighers of the MULTIBELT® series.

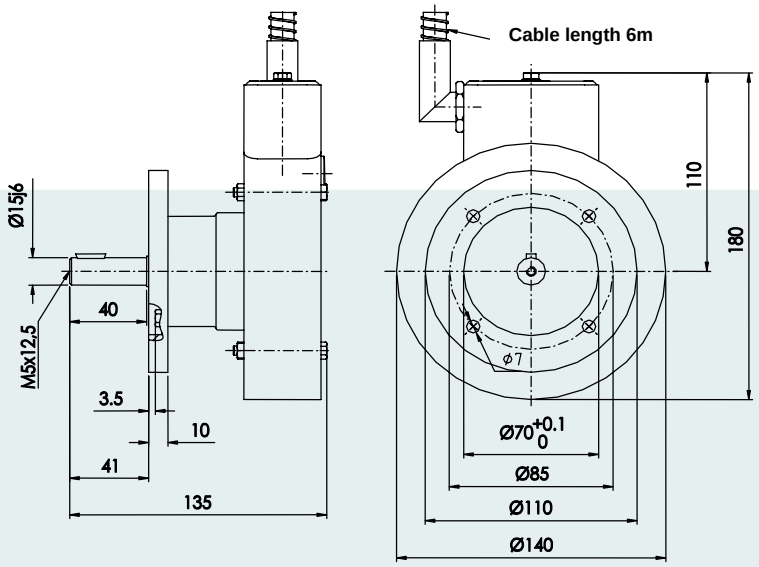
Equipment

The speed sensor consists of a housing with an internal impulse wheel mounted on a drive shaft. The angular velocity of the shaft is measured as a frequency signal through windows in the measuring wheel and with one or two (legal-for-trade) proximity switches and processed using an evaluation device. The FGA 30R2 speed sensor is made entirely of steel with a powder-coated surface. The FGA 30R2 can be fitted with a rocker arm and a friction wheel for use as a friction wheel speedometer for registering the speed of the returning belt. Alternatively, with a clutch the FGA 30R2 can be run by e.g. the tail pulley of a belt feeder system.

Operating Principle

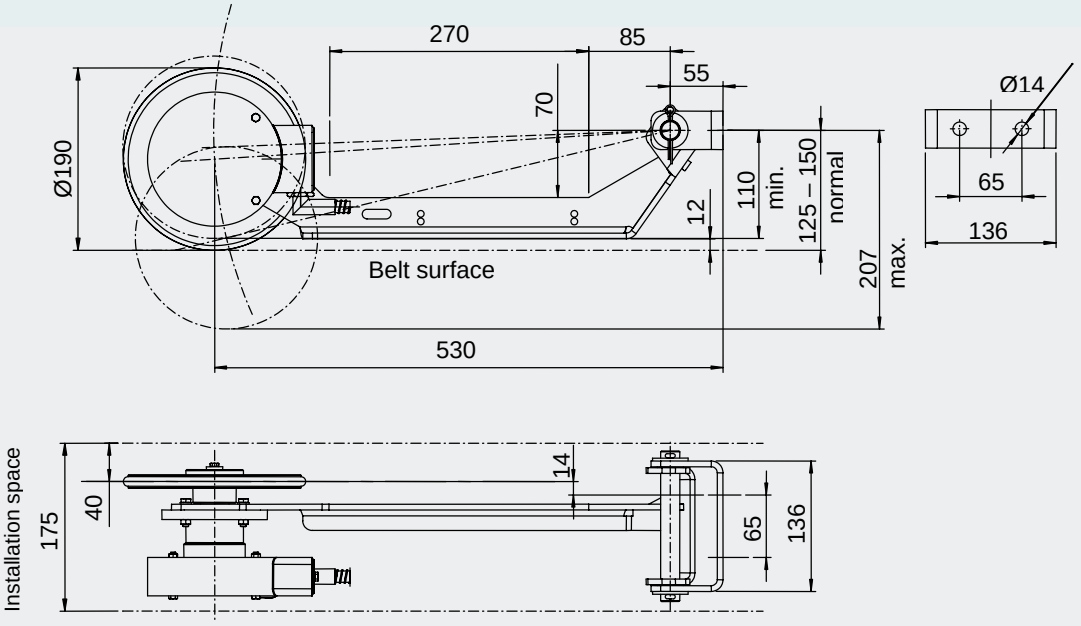
If operated as a friction wheel speedometer:
The friction wheel runs on the interior of the empty, returning belt of a belt feeder system with a rubber ring. Under its own weight, the wheel is friction-locked against the belt and is made to rotate by the belt movement. The non-slip motion means that 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 feeder system. This frequency is transmitted to the evaluation electronics where it is analyzed.

Dimensions (mm)



Operational temperature:	-20°C to +50°C
Maximum speed:	up to 3000 r.p.m.
Characteristic Values:	30 Pulse per rotation
Output signal:	Namur
Weight:	3.2 kg
Standard design:	1 Sensor, V037006.B01
Legal for trade design:	2 Sensors, V037006.B02

Installation with friction wheel, rocker arm and support V047813.B01



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