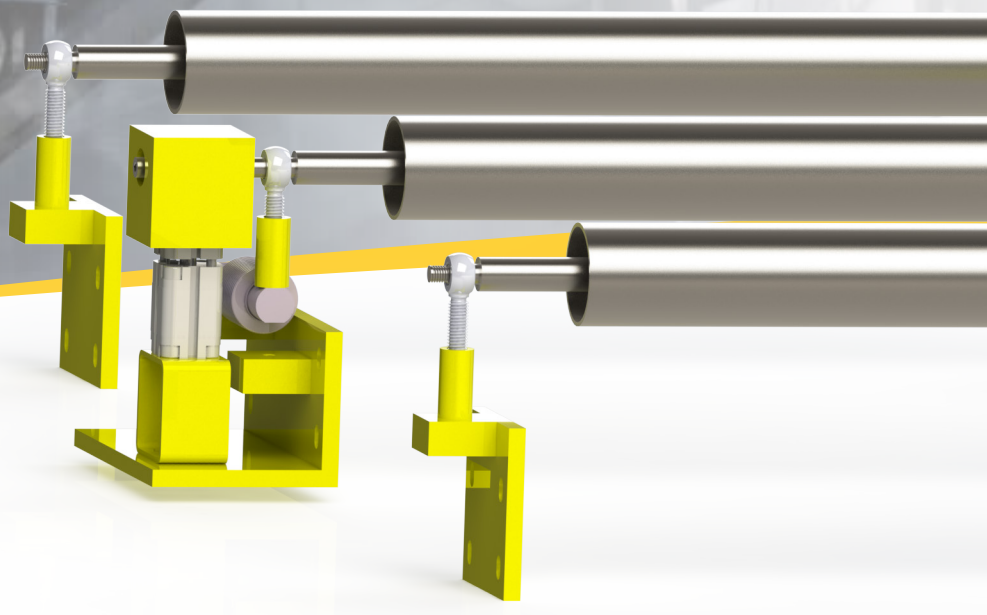


Dynascales.com

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DYNASCALE high precision beltweigher for low capacity model 1042

DYNASCALE BELT SCALE MODEL 1042

The Dynascale belt scale model 1042 is designed for conveyors with flat rollers. The Dynascale belt scale model 1042 allows you to monitor and control your production while providing information on efficient operations.

The Dynascale belt scale model 1042 is designed for high accuracies and mostly used in food and tobacco applications. The belt scale consists of the weighbridge model 1042, with an frame on 2 loadcells, the speed sensor WIS526 and the (optionally calibrated) weighing electronics WI301 or WI8101E. Both weighing frame, speed sensor and weighing electronics have already proven themselves in practice in belt weighing systems.

Easy installation

The Dynascale belt scale model 1042 is easy to install, indoors or outdoors, customised to your applications. Its construction makes it suitable for the most applications on a wide variety of applications. It is used for product with light capacity and high and low density.

The weighing frame

Two bending beam loadcells, which are hermetically sealed load cells, have been strategically placed on adjusting plates outside the conveyor stringers. This setup ensures a stable and reliable foundation for accurate weight measurements. To further enhance precision, a weigh roller has been meticulously mounted on the load cells, ensuring it remains tension-free throughout its operation.

Applications

- Tobacco
- Food
- Chemical plants
- Recycling companies
- Very low capacities

The speed sensor

The digital speed sensor is a highly accurate and reliable speed sensor, ideally suited for use with a belt scale. Its stainless steel construction and IP67 protection degree ensure that it can be used in virtually all conditions, indoors and outdoors, corrosive or not,...

The transducer is mounted on the reversing drum and/or a travel roller on the output shaft, via a rod and a coupling piece to provide a smooth and reliable connection.

Advantages

Weighing frame:

- No moving or wearing parts
- Precision loadcell loaded on pull guarantees optimal alignment and accuracy
- Total displacement of the weighing trough frame is less than 0.1 mm
- Compact design to minimise product accumulation
- Optional : calibration device

Speed sensor:

- Compact design in stainless steel, suitable for outdoor installation
- High number of pulses for high accuracy

The Integrator:

The WI301 integrator is a weight integrator for dynamic weighing systems. By integrating the mV signal from the load cells in the weighing frame and the pulse signal from the speed sensor, the WI301 integrator generates a readout for the product flow in e.g. tonnes/hour. It is also possible to read out the belt load (kg/m), belt speed (m/s) and the daily counter or total counter (kg or Ton). The integrator can also be equipped with various optional boards for e.g. communication purposes. The integrator can be used for both approved and non-approved applications.

Accuracy guarantee:

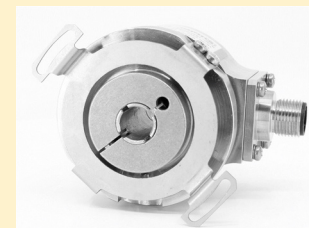
On installations approved by us, we guarantee that the Dynascale belt weighing system weighs and counts within a value of $\pm 0.5\%$ of the test value, between 20 and 100 % of the maximum capacity, provided it is calibrated with material and the conveyor installation is suitable for it.

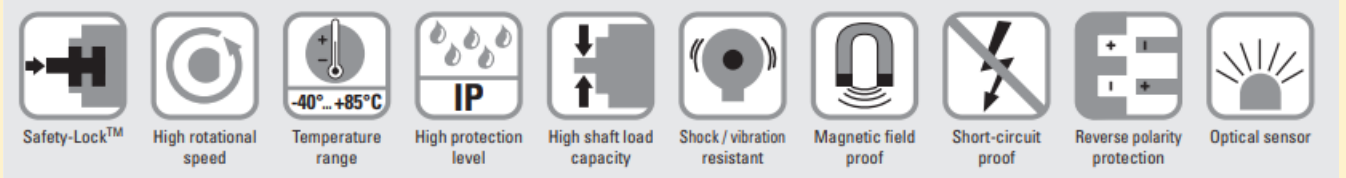
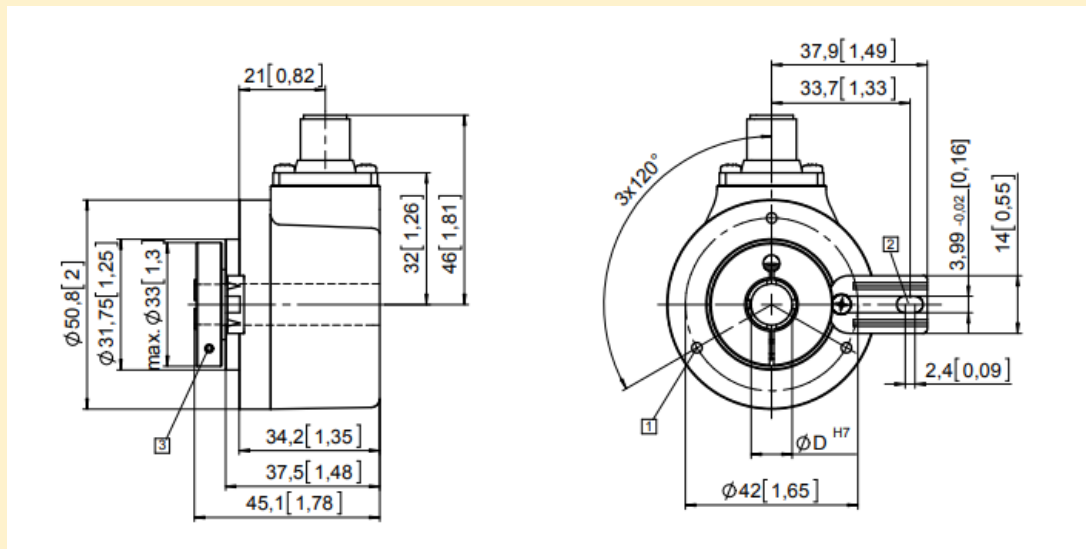
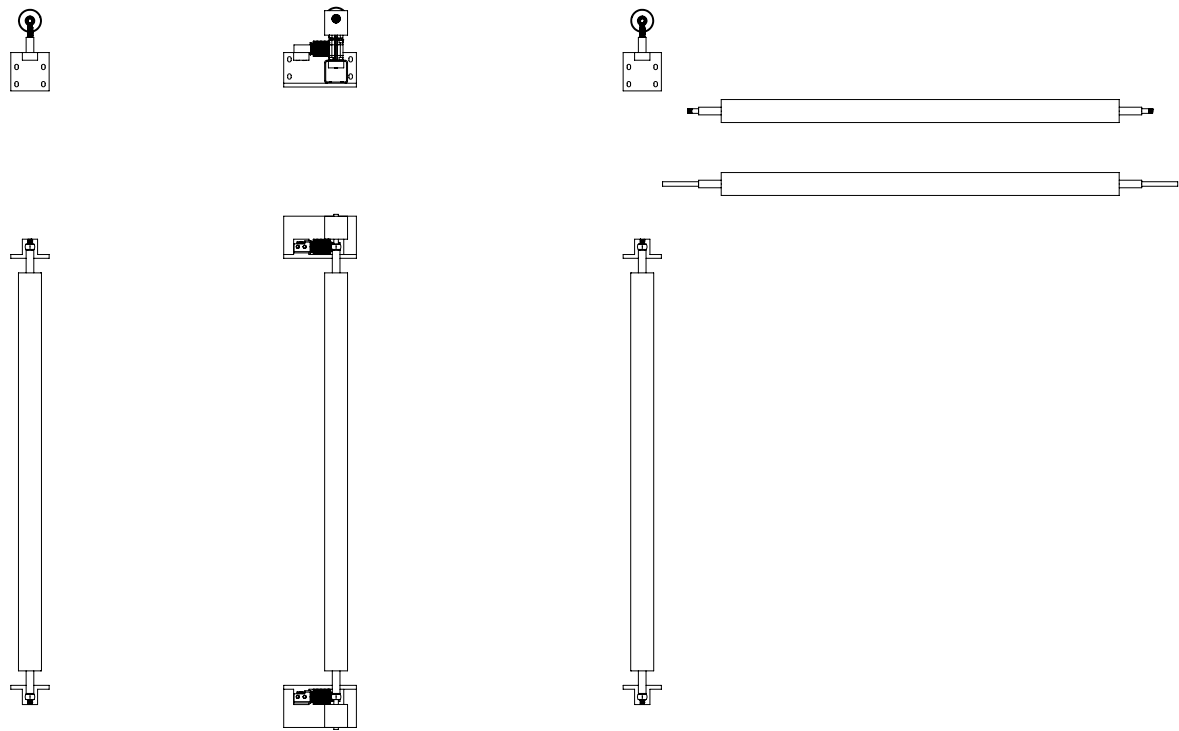


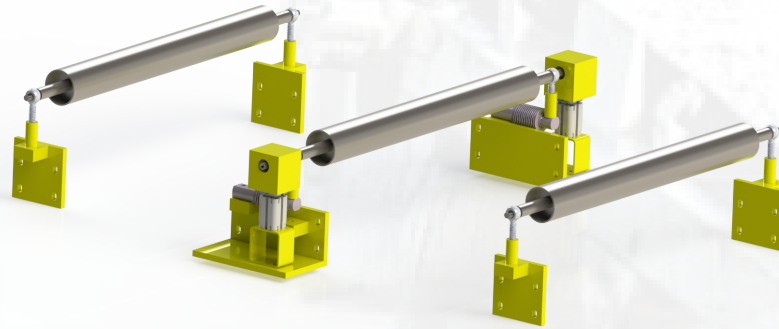
WI301 Weighing indicator,
Field - version



Digital speed sensor WIS526







Specifications

Specifications	
Dynascale 1042 weighing frame	
Weighing section	1 weighing troughs
Weighing frame construction	Powder-coated structural steel, optionally galvanised or stainless steel
Space requirement	Applicable in any standard conveyor belt
Belt widths	200 to 1400 mm, more on request
Loadcell	
Number	2
Type	Bending beams
Mounting	Boldded
Power supply	10 VDC +- 5%
Output	2 mV/V +- 0.1%
Non-linearity	<0.03 % FS
Non-reproducibility	0.01% FS
Operating temperature	-40°C to +80°C
Temperature sensitivity Range	0.0014% FS/°C; Zero 0.0027% FS/°C
Overload	Safe to 150% of load cell capacity; Max. to 300% FS; lateral force max. 50% FS
Belt speed sensor WIS526	
Type	Digital encoder with hollow shaft
Mounting	Directly with a coupling on the output shaft of the reversing drum or a return roller
Housing	Stainless steel housing, IP67
Mounting accessories	Shaft with mounting arm
Weight	Approx. 500 g
WI301 or W18101E	
	for feeder applications
Display	Alphanumeric, 5" colour display
Calibration	Zero points, zero point tracking, resistance simulation, weights, calibration chains or product
Communication	Protocol of your choice (mA, profinet, profibus, Ethernet TCP/IP,...)
Power supply	110 VAC, 240 VAC or 12-30 VDC
Digital inputs	Up to 3
Digital outputs	Up to 4
Housing	Field mount IP69K (228 x 214 x 124 mm) or panel mounting, IP69K (241 x 180 x 47 mm)
Temperature range	-10°C to +40°C

Weighing & Inspection

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