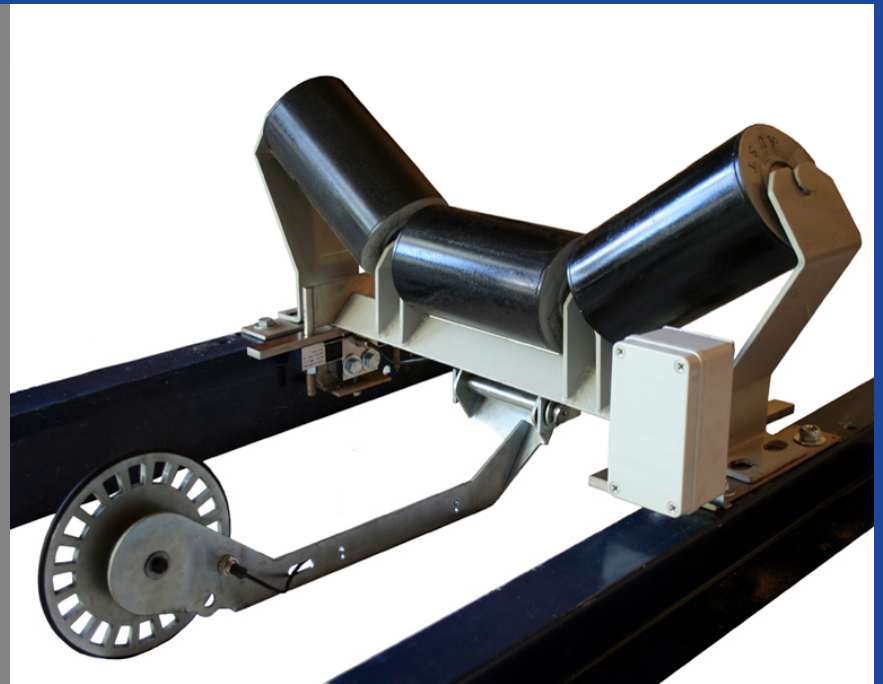


Single idler belt scale Model MBSX

- Simple installation
- Accurate ($\pm 1\%$) and reliable design
- Stainless Steel double ended shear beam load cell
- Optional Jockey wheel speed sensor running on return belt
- Junction box with spring loaded push in terminals
- Zinc plated surface finish with all mounting hardware



Application

Belt Weighers are used for the continuous acquisition of flow rates and totalized amounts. Fitted in either new or existing belt conveyors. They can be employed for a variety of tasks:

- Measurement of production rates in plants.
- Accountability of received and shipped amounts.
- Maximum or Minimum load limit alarms.
- Batching, in loading stations.
- Pre-feeder control.

The sturdy design ensures a high degree of reliability and availability.

Construction

The standard belt weigher comprises:

- Fully floating weighing platforms.
- Two double ended shear beam stainless Steel load cell(s) of IP56 construction.
- IP65 Cable junction box of ABS plastic.
- IP65 Tail drum speed sensor.
- Mounting and adjusting bolts.

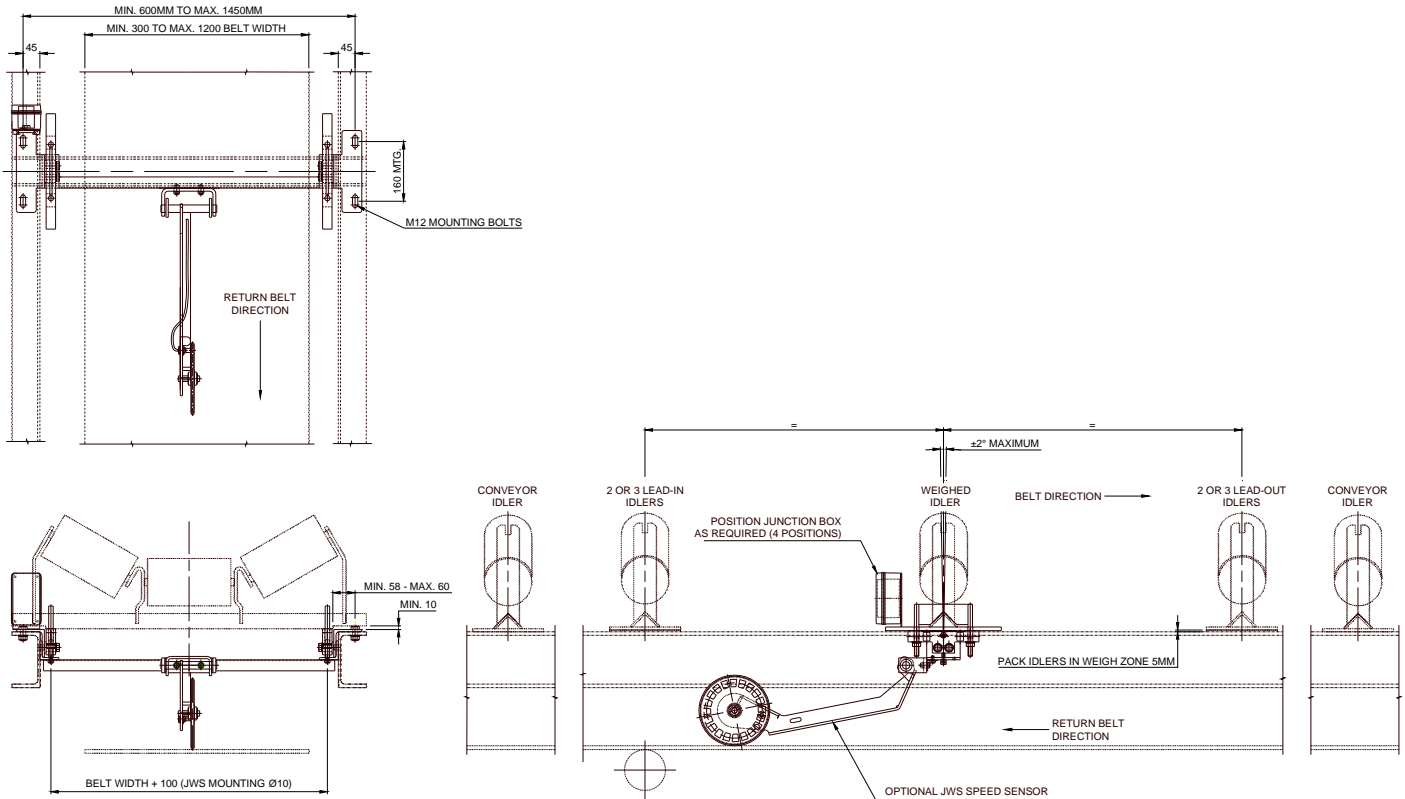
Options include:

- Weigh quality idler sets with screw adjustment (for precise idler alignment, $\pm 0.2\text{mm}$).
- IP65 Cable junction box in 316 stainless steel.
- Friction Jockey Wheel running on return belt.

Operating Principle

The belt weigher comprises load cells that measure the load on the weigh length while a speed transducer acquires the belt speed. The controller calculates both the instantaneous load and the totalized amount. The MBSX features two stainless steel double ended shear beams mounted on each conveyor stringer. The modular design also results in a lighter construction better suited to the working range of the load cells.

Standard Dimensions



Application

Belt widths	300 to 1200mm
Accuracy	± 1% (subject to installation)
Idler troughing angle	20 to 35°
Belt Speed	0.1 to 3 meters per second
Idler Base Angle Size	50x50 to 90x90mm angle

Models and Configuration

	Model	Description	Part Number
Belt Scale	MBSX.100	Belt Scale, 100kg capacity with junction box	NU0016008A
	MBSX.200	Belt Scale, 200kg capacity with junction box	NU0016008B
	MBSX.400	Belt Scale, 400kg capacity with junction box	NU0016008C
Controller (see separate datasheet)	GWS-MS	GWS Controller in IP65 Mild Steel control box 24VDC	PS0007901
	GWS-SS	GWS controller in IP65 Stainless Steel control box 24VDC	PS0007902
	4AN	4-20mA output for GWS controller	PS00048A1
	PS24	110-240VAC to 24VDC cabinet power supply	PS00177A1
Speed Sensor	TDS	Tail drum mounted speed sensor	PS0003802
	JWS	Jockey Wheel speed sensor	PS0001401

All belt scales should be installed in accordance with our recommendations for the planning in of belt scales (TCM0002) and the installation and operating manual. Due to our policy of continuous improvement, dimensions and specifications may change without notice. Have all applications and specification reviewed prior to final design and all dimensions certified for installation purposes.

