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FOR ALL YOUR CONVEYOR NEEDS



RUBBEX BELT WEIGHING

**PRECISION IN MOTION,
PRODUCTIVITY IN MEASURE**

Accurate real-time weighing for total control
of your mining operations

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Conveyor Belt Scale (also called a belt weigher, weigh belt system, or conveyor belt scale) is a specialized industrial weighing system used in mining operations to measure the mass flow rate of bulk materials (such as coal, ore, aggregates, sand, minerals) as they are transported on a conveyor belt. It ensures accurate measurement of throughput, production control, and load monitoring in real-time.

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conveyor belt scale is an integrated weighing device installed on a conveyor system that continuously measures the weight of material passing over it. It combines a load measurement sensor (load cell) with a speed sensor to calculate the flow rate (tons/hour) and cumulative total (tons) of material transported.

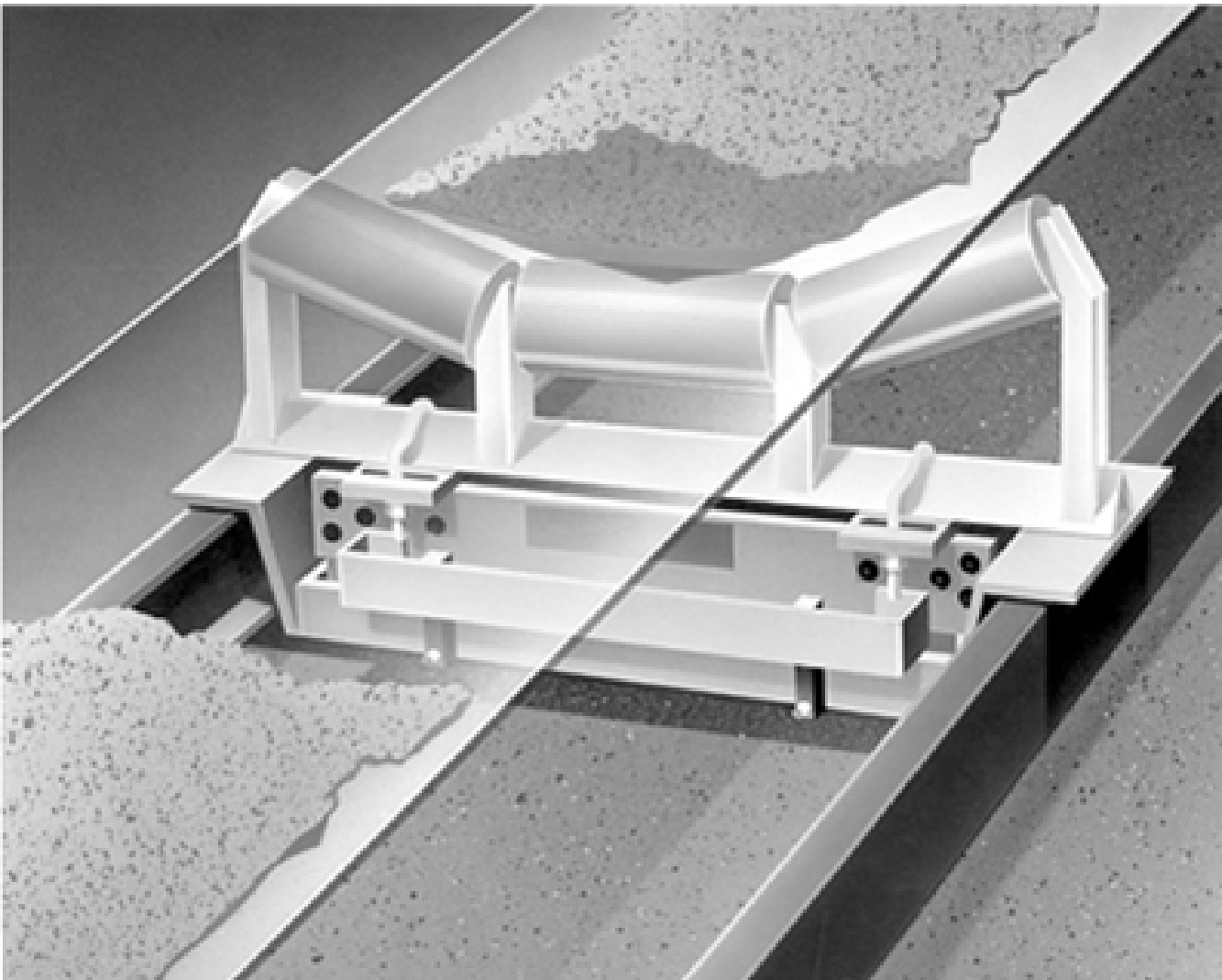
Over View

Belt scales help maximize the use of raw materials, control inventories, and aid in the manufacturing of a consistent product. Belt scales from Siemens are easy to install and require little maintenance. They produce repeatable, accurate results. These belt scales show minimal hysteresis and superior linearity, and ignore side loading. Load cell overload protection is a feature of the belt scale design.

Typical system

A typical belt scale system has a weigh bridge structure supported on load cells, an electronic integrator, and a belt speed sensor. The load cells measure the material weight on the belt, and send a signal to the integrator. The integrator also receives input in the form of electrical pulses from a belt speed sensor connected to a tail or bend pulley. Using these two sources of data, the integrator calculates the rate of material transferred along the belt using the equation **weight x speed = rate**.

Belt scale operation

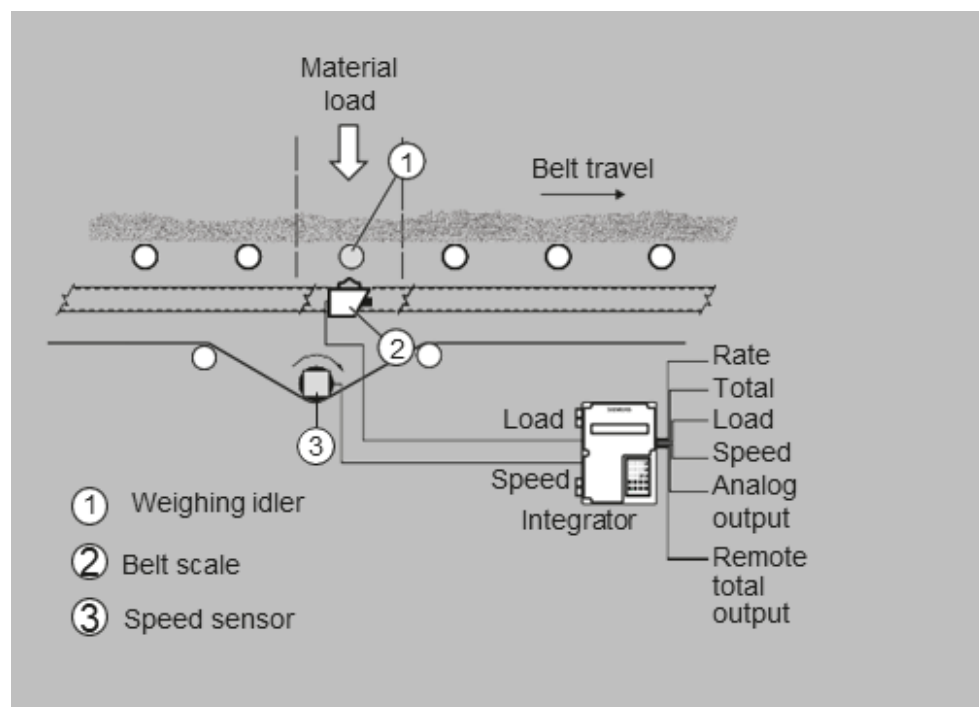


Mode of operation

Rubbex belt scales only measure the vertical component of the applied force. As material moves down the conveyor belt and travels over the belt scale, it exerts a force proportional to the material load through the suspended idler directly to the load cells. The resulting force applied in each load cell is sensed by its strain gauges. When the strain gauges are excited by voltage from the electronic integrator, they produce an electrical signal proportional to belt loading, which is then applied to the integrator.

The vertical movement of the load cells is limited by the positive overload stop incorporated into the design of the belt scale or load cells. The stops protect the load cells from failure in the event of extreme overload forces.

Installation tips



Position the scale

Locate the scale close to the tail section of the conveyor belt where tension is minimal and more consistent. Mount the scale on rigid mountings, away from equipment that may produce measurement disturbing vibrations. Avoid variable tension points, transition points, or slope change. The ideal location is a horizontal, even belt section, but you can achieve good results on slopes if the idlers are properly aligned. If the conveyor curves, locate the scale a proper distance from the tangent points of the curve. For concave curved conveyors, the recommended minimum distance is 12 m (40 ft) from the tangent points of the curve. With convex conveyors, the minimum distance is 6 m (20 ft) on the approach side, and 12 m (40 ft) on the retreat side. Be sure to install the scale a sufficient distance from the infeed section (at least one idler space) so the material has time to settle properly on the belt.

Reduce variable belt tension

With temperature variations, load, and other circumstances, the belt tension will change. To maintain proper tension, a gravity take-up is recommended. This is a weight designed to take up slack on the belt. A gravity take-up should move freely and place consistent tension on the belt. The use of screw take-ups should be limited to conveyors with pulley centers to 18.3 m (60 ft) or less. The amount of weight should conform to the conveyor design specifications.

Align the idlers

Precise idler alignment is essential. At least two idlers on each side of the scale should be aligned with the belt scale; use three or more for high accuracy applications. To check alignment, use wire, string, or fishing line across the top outer edges of the rollers and tighten enough to eliminate sag. Adjust the height of the rollers with shims until they are all even, or at least within ± 0.8 mm (1/32 inch). All of the scale-area idlers should be the same type (size, diameter, style, trough angle, and manufacture) and should be spaced at equal distances. Locate training idlers a minimum of 9 m (30 ft) from the belt scale idler.

Install speed sensors

The speed sensor should be attached to the tail pulley or bend pulley shaft so the connection does not slip. It is important that the speed sensor be properly mounted as described in the Operating Instructions and free of excessive vibration. Whenever possible, mount the speed sensor on a solid face pulley. The use of wing- or beater-type pulleys is not recommended. Wheel driven speed sensors, that are applied to the return strand of the belt, should be located close to a return idler to ensure a stable drive surface.

Wire the scale

Follow good instrumentation wiring practices to protect the load cell and speed sensor signals from radio frequency interference and induction. Use terminal blocks, shielded cable, and grounded metal conduit for all wiring.

Technical specifications

Criteria	Typical industries	Typical applications	Maximum capacity	Maximum belt speed	Loading range	Value	Specified range
Rubbex RLCS	<ul style="list-style-type: none"> •Animal feed •Fertilizers •Food processing •Tobacco 	Secondary industries	50 t/h (55 STPH) at max. belt speed	2.0 m/s (400 fpm)	Light	± 0.5 ... 1 %	25 ... 100 %
Rubbex RMUS	<ul style="list-style-type: none"> •Aggregates •Agricultural •Mining •Cement 	<ul style="list-style-type: none"> •Aggregates •Medium- to heavy-duty 	5 000 t/h (5 500 STPH) at max. belt speed	3.0 m/s (600 fpm)	Light to heavy	± 0.5 ... 1 %	25 ... 100 %
Rubbex RCS	Aggregates	<ul style="list-style-type: none"> •Mobile crushers •Aggregates •Screening plants •Heavy-duty 	2 400 t/h (2 640 STPH) at max. belt speed	3.0 m/s (600 fpm)	Light to heavy	± 0.5 ... 1 %	25 ... 100 %
Rubbex RSI	<ul style="list-style-type: none"> •Cement •Chemicals •Coal •Food processing •Mineral processing •Mining 	<ul style="list-style-type: none"> •Industrial heavy-duty •Custody transfer 	12 000 t/h (13 200 STPH) at max. belt speed	5.0 m/s (984 fpm)	Moderate to heavy	± 0.5 % or better	20 ... 100 %
Rubbex MMI	<ul style="list-style-type: none"> •Cement •Chemicals •Coal •Food processing •Mineral processing •Mining 	<ul style="list-style-type: none"> •Industrial heavy-duty •Custody transfer 	12 000 t/h (13 200 STPH) at max. belt speed	5.0 m/s (984 fpm)	Moderate to heavy	MMI-2 (2 idler): ± 0.25 % or better MMI-3 (3 idler): ± 0.125 % or better	20 ... 100 % 25 ... 10 %
Rubbex WD600	<ul style="list-style-type: none"> •Food •Pharmaceutical and tobacco industries 	<ul style="list-style-type: none"> •Process and load-out control •Light- to medium-duty 	Up to 100 t/h	2.0 m/s (400 fpm) maximum	Light to moderate	± 0.5 ... 1 %	25 ... 100 %

Rubbex RLCS (low-capacity scale)

Overview



Rubbex RLCS is a low-capacity scale for light belt loading

Benefits

- Unique parallelogram style load cell design
- Designed for light product loading
- Compact and easy to install
- System includes weighing idler
- Stainless steel option
- Low cost of ownership

Application

The RLCS is suitable for monitoring such products as fertilizer, tobacco, animal feed pellets, or sugar.

The RLCS's proven use of parallelogram style load cells results in fast reaction to vertical forces, ensuring instant response to product loading. This enables it to provide outstanding accuracy and repeat- ability even with very light loading. The RLCS may be easily installed in existing flat belt conveyors or belt feeders.

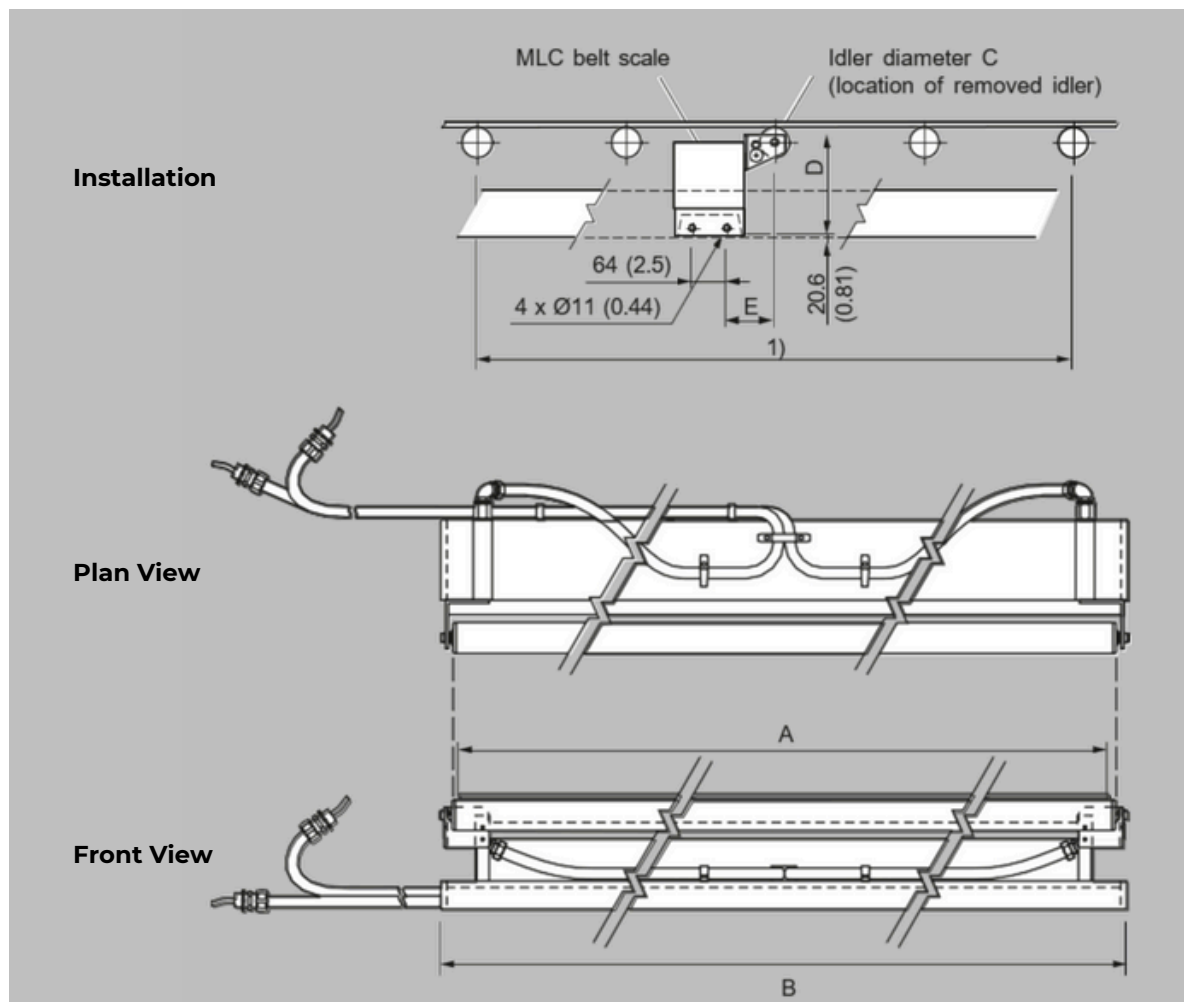
Operating with Rubbex BW500, SIWAREX WT241, WP241, or FTC microprocessor-based integrators, the RLCS provides indication of flow rate, total weight, belt load and belt speed of bulk solids materials on a belt conveyor. A speed sensor monitors conveyor belt speed for input to the integrator. When used in conjunction with Rubbex BW500 integrator with PID controller, the RLCS may also be used in the food industry as part of a pre-feed control system for extruders, cookers and dehydrators.

Technical Specifications Of RLCS

Mode of operation	
Measuring principle	Strain gauge load cell measuring load on flat belt conveyor idler
Typical application	Monitor fertilizer, tobacco, animal feed pellets, sugar, cereal
Performance Accuracy1)	± 0.5 ... 1.0 % of totalization over 25 ... 100 % operating range ± 0.1 %
Medium conditions Max. material temperature	85 °C (185 °F)
Belt design Belt width	•450 ... 1 200 mm •18 ... 48 inch
Capacity	Up to 50 t/h (55 STPH)2)
Conveyor incline	•± 20° from horizontal, fixed incline •Up to ± 30° with reduced accuracy
Idlers	
Conveyor idler	Horizontal
Idler diameter	50 or 60 mm (1.90 or 2.30 inch)
Idler spacing	0.5 ... 1.5 m (1.6 ... 5.0 ft)
Load cell	
Construction	
Degree of protection	17-4 PH (1.4568) stainless steel construction with 304 (1.4301) stainless steel cover Strain gauge protection: polybutadiene
Cable length	IP67
Excitation	3 m (10 ft) 10 V DC nominal, 15 V DC maximum
Output	2 mV/V excitation at rated load cell capacity
Non-linearity	0.03 % of rated output 0.05 % of rated output
Hysteresis	0.03 % of rated output 10 or 20 lb 150 % of rated capacity, ultimate 300 % of rated capacity
Non-repeatability	•-40 ... +85 °C (-40 ... +185 °F) operating range
Capacity	•-10 ... +60 °C (14 ... 140 °F) compensated
Overload	
Temperature	
Mounting dimensions	Identical for all capacities
Hazardous locations	Consult the factory

Accuracy subject to: on factory approved installations the belt scale system's totalized weight will be within the specified accuracy when compared to a known weighed material test sample. The test rate must be within the specified range of the design capacity and held constant for the duration of the test. The minimum material test sample must be equivalent to a sample obtained at the test flow rate for three revolutions of the belt or at least ten minutes running time, whichever is greater

Dimensional drawings



For pan supported belts, the belt should be cut out to allow the RLCS and at least two (preferably four) other idlers to be installed.

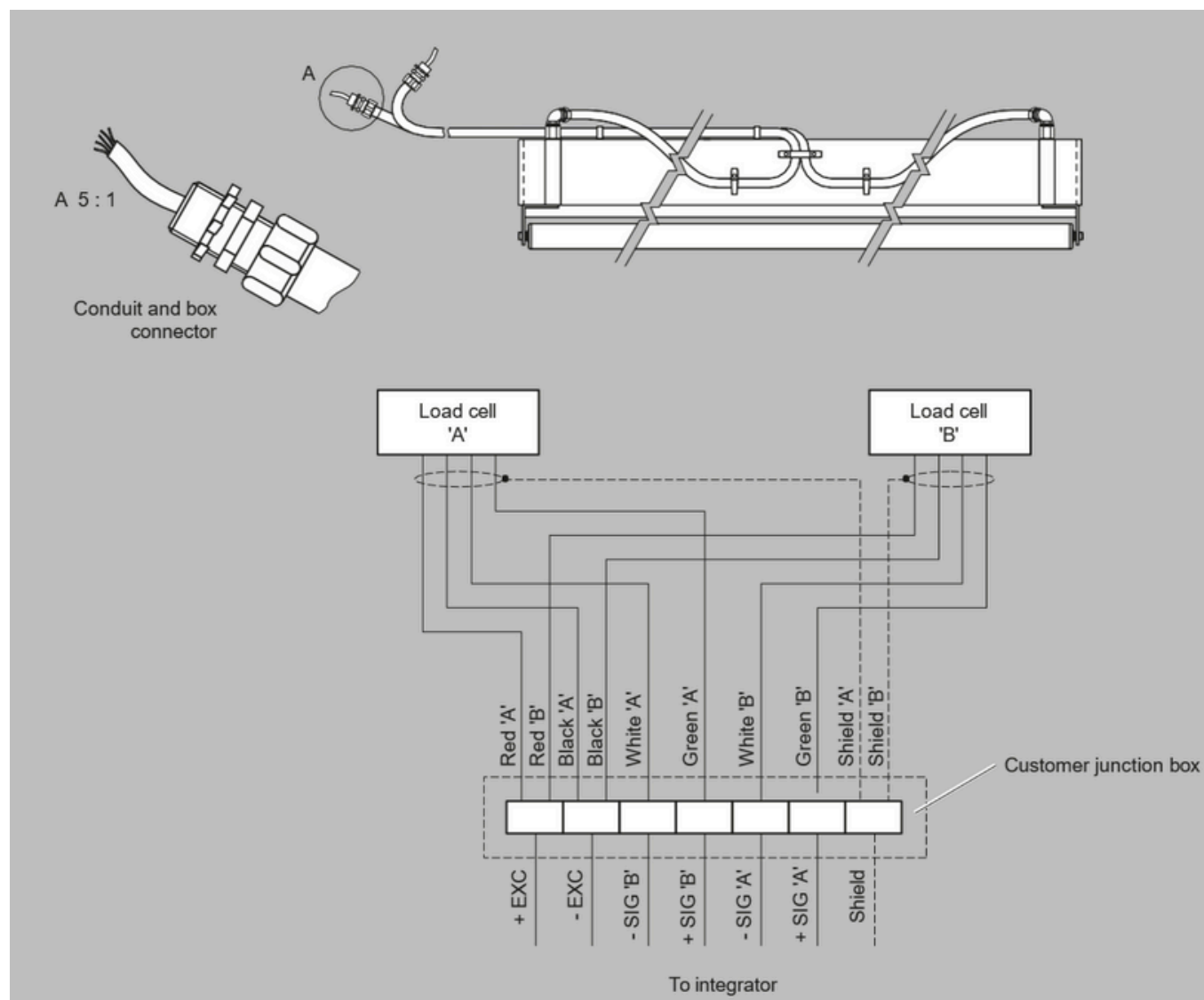
Imperial designs [dimensions in inch (mm)]

Scale size	'A' roller width	'B' dimension	'C' dimension	'D' dimension	'E' dimension
18 (457)	18 (457)	19 (483)	1.90 (48.3)	6.19 (157)	3.5 (89)
24 (610)	24 (610)	25 (635)	1.90 (48.3)	6.19 (157)	3.5 (89)
30 (762)	30 (762)	31 (787)	1.90 (48.3)	6.19 (157)	3.5 (89)
36 (914)	36 (914)	37 (940)	1.90 (48.3)	6.19 (157)	3.5 (89)
42 (1 067)	42 (1 067)	43 (1 092)	1.90 (48.3)	6.19 (157)	3.5 (89)
48 (1 219)	48 (1 219)	49 (1 245)	1.90 (48.3)	6.19 (157)	3.5 (89)

Metric designs [dimensions in mm (inch)]

Scale size	'A' roller width	'B' dimension	'C' dimension	'D' dimension	'E' dimension
450 (17.72)	450 (17.72)	500 (19.69)	50 (1.97)	158 (6.22)	96 (3.78)
500 (19.69)	500 (19.69)	550 (21.65)	50 (1.97)	158 (6.22)	96 (3.78)
650 (25.59)	650 (25.59)	700 (27.56)	50 (1.97)	158 (6.22)	96 (3.78)
800 (31.50)	800 (31.50)	850 (33.46)	50 (1.97)	158 (6.22)	96 (3.78)
1 000 (39.37)	1 000 (39.37)	1 050 (41.34)	60 (2.36)	158 (6.22)	96 (3.78)
1 200 (47.24)	1 200 (47.24)	1 250 (49.21)	60 (2.36)	158 (6.22)	96 (3.78)

Circuit diagrams Of RLCS Connections



Note:

Conduit and cable arrangement may differ from example shown.

Rubbex RMUS (medium-to heavy-duty belt scale)

Overview



Rubbex RMUS is a modular designed, medium-to heavy-duty belt scale for process indication.

Benefits

- Unique modular design
- Simple installation
- Low cost
- Easy retrofit

Application

Rubbex RMUS operates with products like aggregates, sand, or minerals, providing continuous in-line weighing at a minimal cost. With no cross bridge, this versatile unit will fit most conveyor widths and standard idlers, and product build-up is reduced. The construction and easy assembly of the RMUS ensures quick delivery to meet even the tightest of schedules. Where scales are moved from conveyor to conveyor, the RMUS also provides unmatched flexibility.

Operating with Rubbex BW500, SIWAREX WT241, WP241, or FTC microprocessor-based integrators, the RMUS provides indication of flow rate, total weight, belt load, and speed of bulk solids materials on a belt conveyor. A speed sensor monitors conveyor belt speed for input to the integrator.

Technical Specifications Of RMUS

Mode of operation Measuring principle Typical applications	Heavy duty strain gauge load cells measuring load on belt conveyor idlers •Monitor fractionated stone on secondary surge belts and recirculating loads •Track daily production totals
Measurement accuracy Accuracy1)	± 0.5 ... 1 % of totalization over 25 ... 100 % operating range, application dependent
Medium conditions Max. material temperature	65 °C (150 °F)
Belt design Belt width	•Standard duty up to 1 000 mm (CEMA width up to 42 inch) •Heavy-duty up to 1 524 mm (CEMA width up to 60 inch)
Capacity	Up to 5 000 t/h at maximum belt speed2)
Conveyor incline	•± 20° from horizontal, fixed incline •Up to ± 30° with reduced accuracy3)
Idlers	
Idler profile	•Flat to 35°
	•To 45° with reduced accuracy3)
Idler diameter	50 ... 180 mm (2 ... 7 inch)
Idler spacing	0.6 ... 1.5 m (2.0 ... 5.0 ft)
Load cell	Nickel plated alloy steel Strain gauge protection: silicon IP66 3 m (10 ft) 10 V DC nominal, 15 V DC max. 2 mV/V excitation at rated load cell capacity 0.02 % of rated output 0.01 % of rated output 20, 30, 50, 75, 100 kg (44, 66, 110, 165, 220 lb) 50, 100, 150, 200, 500 kg (110, 220, 330, 440, 1 100 lb) 150 % of rated capacity, ultimate 200 % of rated capacity •-40 ... +65 °C (-40 ... +150 °F) operating range •-10 ... +40 °C (15 ... 105 °F) compensated
Construction	
Degree of protection	
Cable length	
Excitation	
Output	
Non-linearity and hysteresis	
Non-repeatability	
Capacity	
•Standard duty ranges	
•Heavy-duty ranges	
Overload	
Temperature	
Weight	Standard duty up to 44 lb (20 kg), 22 lb (10 kg) per side Heavy-duty up to 64 lb (30 kg), 32 lb (15 kg) per side
Interconnection wiring (to integrator)	•< 150 m (500 ft) 18 AWG (0.75 mm²) 6 conductor shielded cable
Hazardous locations	Consult the factory

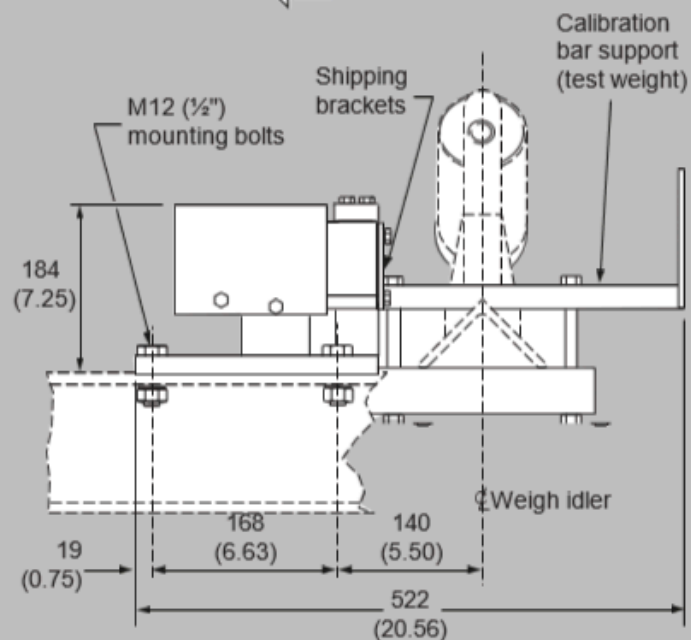
Accuracy subject to: on factory approved installations the belt scale system's totalized weight will be within the specified accuracy when compared to a known weighed material test sample. The test rate must be within the specified range of the design capacity and held constant for the duration of the test. The minimum material test sample must be equivalent to a sample obtained at the test flow rate for three revolutions of the belt or at least ten minutes running time, whichever is greater.

Dimensional drawings

Standard duty

Belt direction for all flat or inclined conveyors

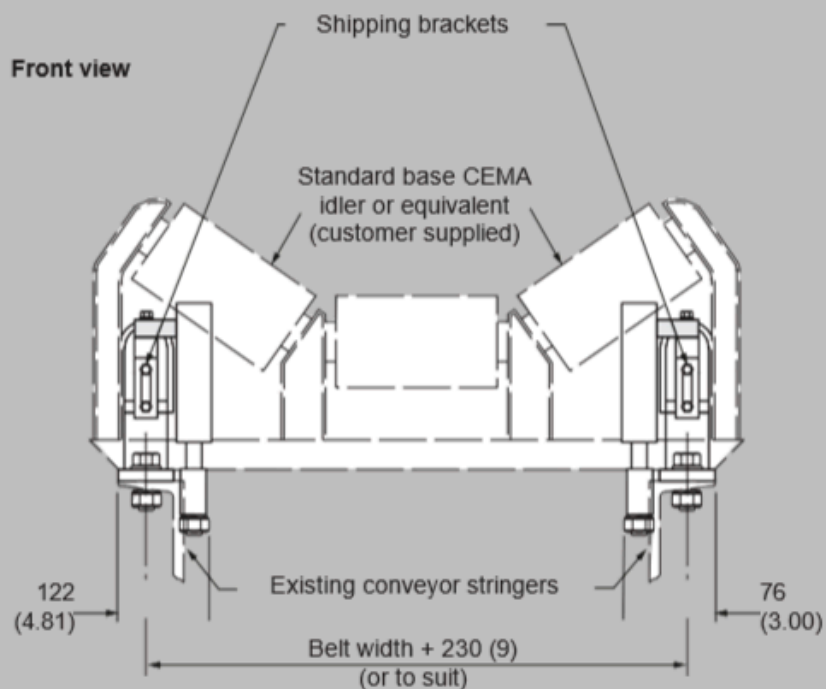
Side view



Note:

(2) approach and (2) retreat idlers should be aligned with the weigh idler to within 0.8 (+1/3) to 0 (0).

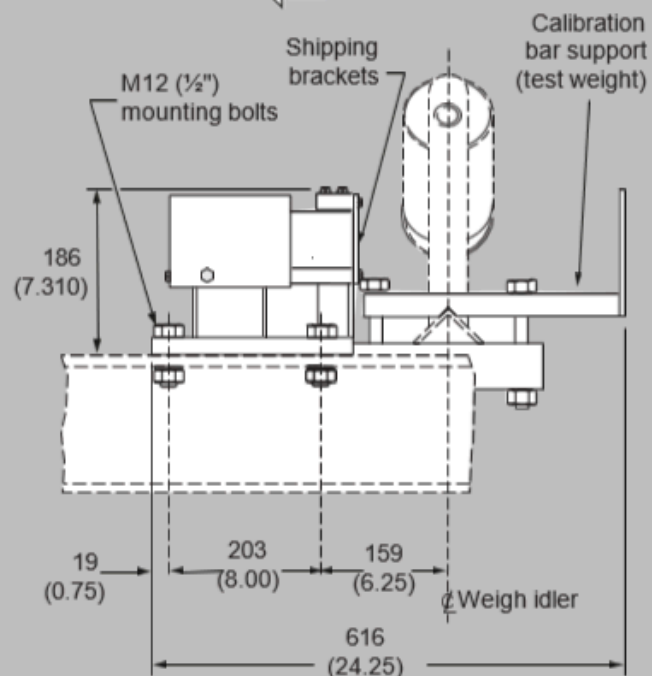
Front view



Heavy duty

Belt direction for all flat or inclined conveyors

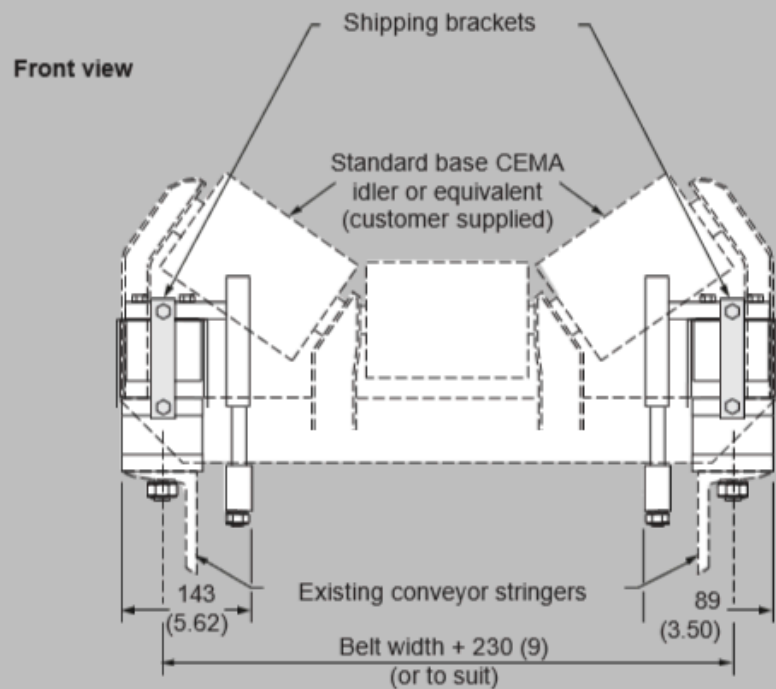
Side view



Note:

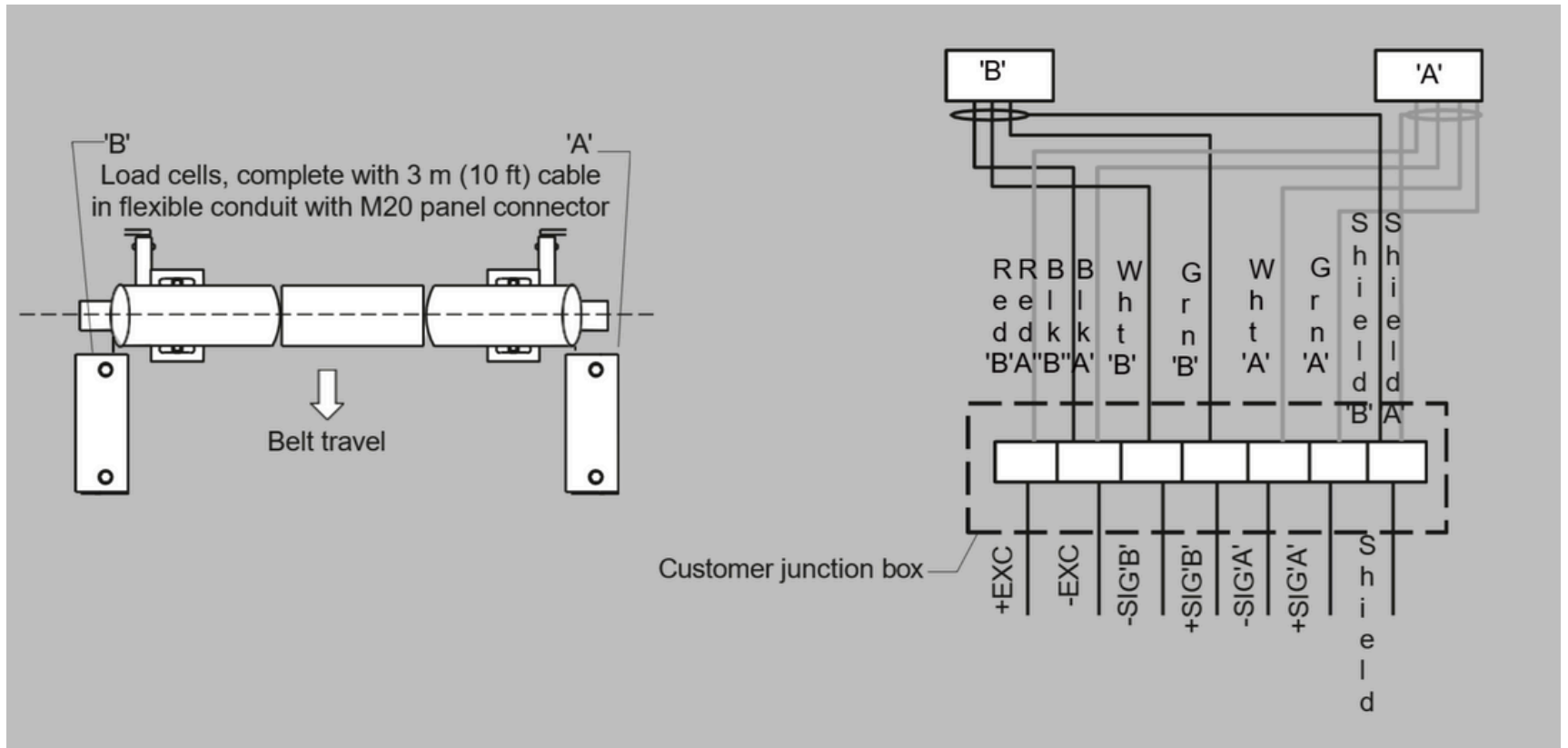
(2) approach and (2) retreat idlers should be aligned with the weigh idler to within 0.8 (+1/3) to 0 (0).

Front view



RMUS, dimensions in mm (inch)

Circuit diagrams - RMUS Connection



RMUS, dimensions in mm (inch)

Rubbex RCS (Compact Scale)

Overview



Rubbex RCS is a compact, rugged, modular, heavy-duty belt scale for use in mobile crushers and aggregate screening plants. Idler not included with belt scale.

Benefits

- Rugged design
- Low profile
- Easy retrofit
- Low cost
- Stainless steel load cells

Application

Rubbex RCS provides continuous, in-line weighing at minimal cost. The stainless steel load cells ensure long-term, consistent, reliable measurement. The modular construction and easy assembly of the MCS ensures quick delivery to meet even the tightest of schedules.

Operating with Rubbex BW500, SIWAREX WT241, WP241, or FTC microprocessor-based integrators, the RCS provides indication of flow rate, total weight, belt load, and belt speed of bulk solids materials on a belt conveyor.

To complete the weighing system, include a speed sensor to monitor conveyor belt speed for input to the integrator. On mobile crushing equipment, the TASS speed sensor is a compact, rugged speed sensor designed for use with the RCS.

Technical Specifications Of RCS

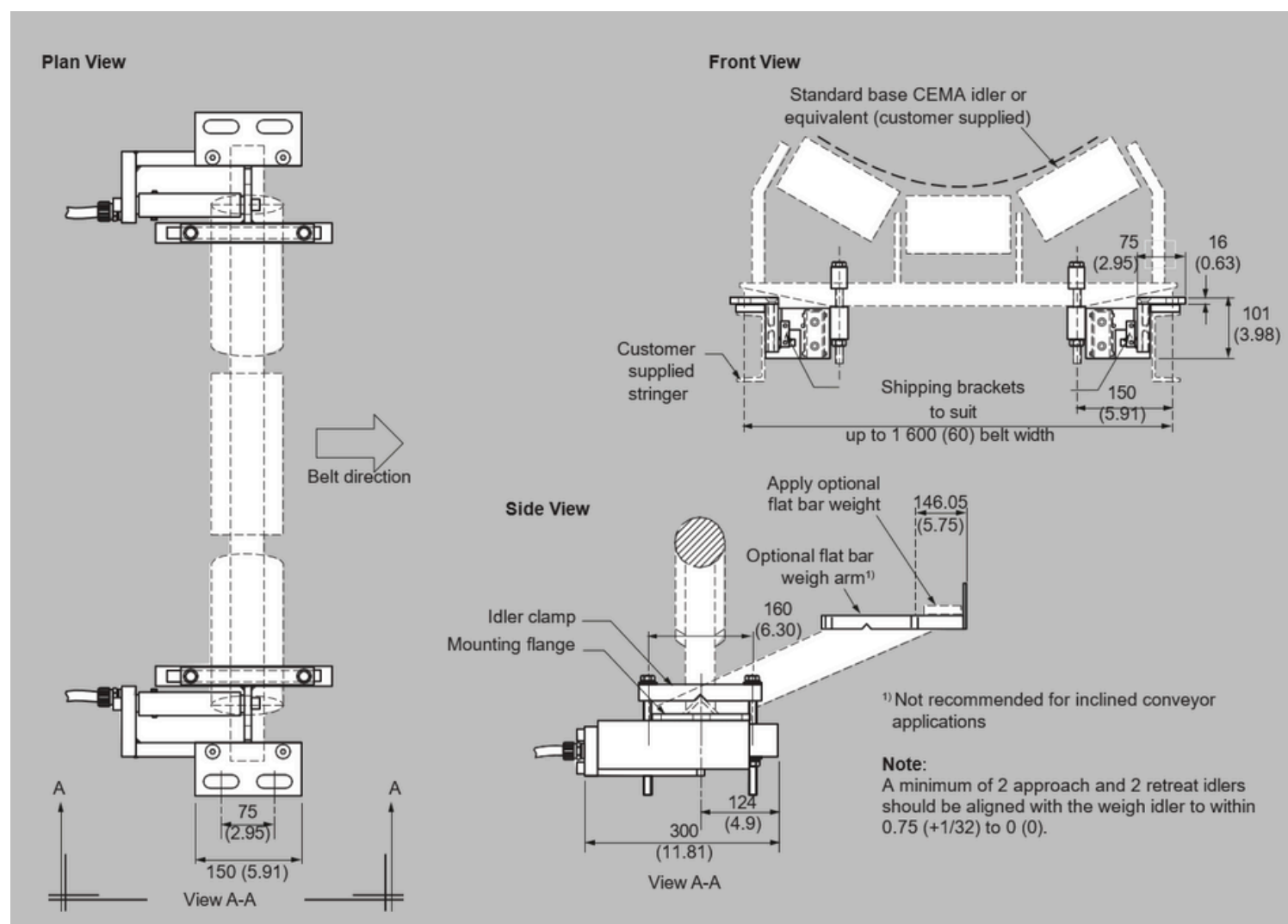
Mode of operation Measuring principle Typical application	Strain gauge load cells measuring load on belt conveyor idlers Mobile crusher systems
Measurement accuracy	
Accuracy1)	• $\pm 0.5 \dots 1 \%$ of totalization over
	25 ... 100 % operating range, application
	dependent
	• $\pm 2 \%$ of totalization over 25 ... 100 %
	operating range on mobile crusher applic-
	ations
Repeatability	$\pm 0.1 \%$
Belt design Belt width Belt speed	• Up to 1 600 mm (60 inch CEMA) width • Refer to the outline dimension section Up to 4 m/s (800 fpm) ²⁾
Capacity	Up to 2 400 t/h (2 640 STPH) at maximum belt speed ²⁾
Conveyor incline	• $\pm 20^\circ$ from horizontal, fixed incline • Up to $\pm 30^\circ$ with reduced accuracy ³⁾
Idlers	
Idler profile	• Flat to 35°
	• To 45° with reduced accuracy ³⁾
Idler diameter	100 ... 150 mm (4 ... 6 inch)
Idler spacing	0.6 ... 1.2 m (2.0 ... 4.0 ft)
Load cell	
Construction	17-4 PH (1.4568) stainless steel construction with 304 (1.4301) stainless steel cover Strain gauge protection: polybutadiene
Degree of protection	IP67, IP65 on hazardous approved models
Cable length	3 m (10 ft)
Excitation	10 V DC nominal, 15 V maximum
Output	2 mV/V excitation at rated load cell capacity

Technical Specifications Of RLCS

Non-linearity and hysteresis Non-repeatability Capacity Overload Temperature	0.02 % of rated output 0.01 % of rated output 25, 50, 100, 250, 500 lb stainless steel 150 % of rated capacity, ultimate 300 % of rated capacity •-50 ... +75 °C (-58 ... +167 °F) operating range •-40 ... +65 °C (-40 ... +150 °F) compensated
Weight	Up to 20 kg (44 lb), 10 kg (22 lb) per side
Interconnection wiring (to integrator)	•< 150 m (500 ft) 18 AWG (0.75 mm ²) 6 conductor shielded cable •> 150 m (500 ft) to 300 m (1 000 ft) 18 ... 22 AWG (0.75 ... 0.34 mm ²), 8 conductor shielded cable

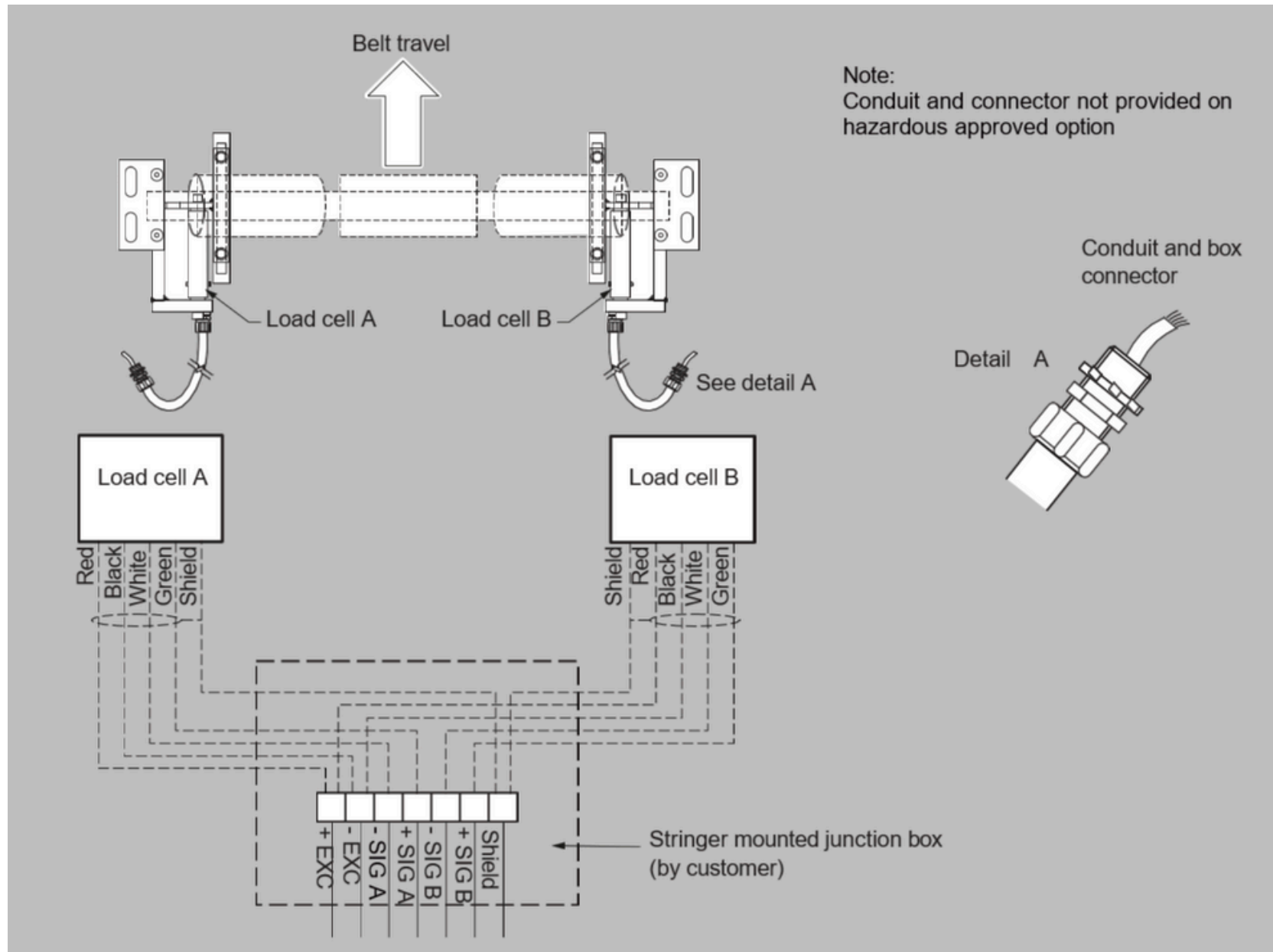
Accuracy subject to: on factory approved installations the belt scale system's totalized weight will be within the specified accuracy when compared to a known weighed material test sample. The test rate must be within the specified range of the design capacity and held constant for the duration of the test. The minimum material test sample must be equivalent to a sample obtained at the test flow rate for three revolutions of the belt or at least ten minutes running time, whichever is greater.

Dimensional drawings



RCS, dimensions in mm (inch)

Circuit diagrams - RCS connections



RCS, dimensions in mm (inch)

Rubbex RSI & RMI (single idler & Multi Idler Scale)

Overview Of RSI



Rubbex RSI is a heavy-duty, high accuracy full-frame single idler belt scale used for process and load-out control. Idler not included with belt scale.

Benefits

- Outstanding accuracy and repeatability
- Unique parallelogram style load cell design
- Fast reaction to product loading; capable of monitoring fast moving belts
- Rugged construction

Application

Rubbex RSI belt scale provides continuous in-line weighing on a variety of products in primary and secondary industries. It is proven in a wide range of tough applications from extraction (in mines, quarries and pits), to power generation, iron and steel, food processing and chemicals. The RSI is suitable for monitoring such diverse products as sand, flour, coal, or sugar.

The RSI's proven use of parallelogram-style load cells results in fast reaction to vertical forces, ensuring instant response to product loading. This enables it to provide outstanding accuracy and repeatability even with uneven loading and fast belt speeds.

Operating with Rubbex BW500, SIWAREX WT241, WP241, or FTC microprocessor-based integrators, the RSI provides indication of flow rate, totalized weight, belt load, and belt speed of bulk solid materials. A speed sensor monitors conveyor belt speed for input to the integrator.

The RSI is installed in a simple drop-in operation and may be secured with just four bolts. An existing idler is then attached to the RSI dynamic beam. With no moving parts, maintenance is kept to a minimum, with just periodic calibration checks required.

Rubbex RSI & RMI (single idler & Multi Idler Scale)

Overview Of RMI



Rubbex RMI is a heavy-duty, high accuracy multiple idler belt scale used for critical process and load-out control. Idler not included with belt scale.

Benefits

- Exceptional accuracy and repeatability
- Unique parallelogram style load cell design
- Suitable for uneven or light product loading
- Capable of monitoring fast moving belts
- Low cost of ownership

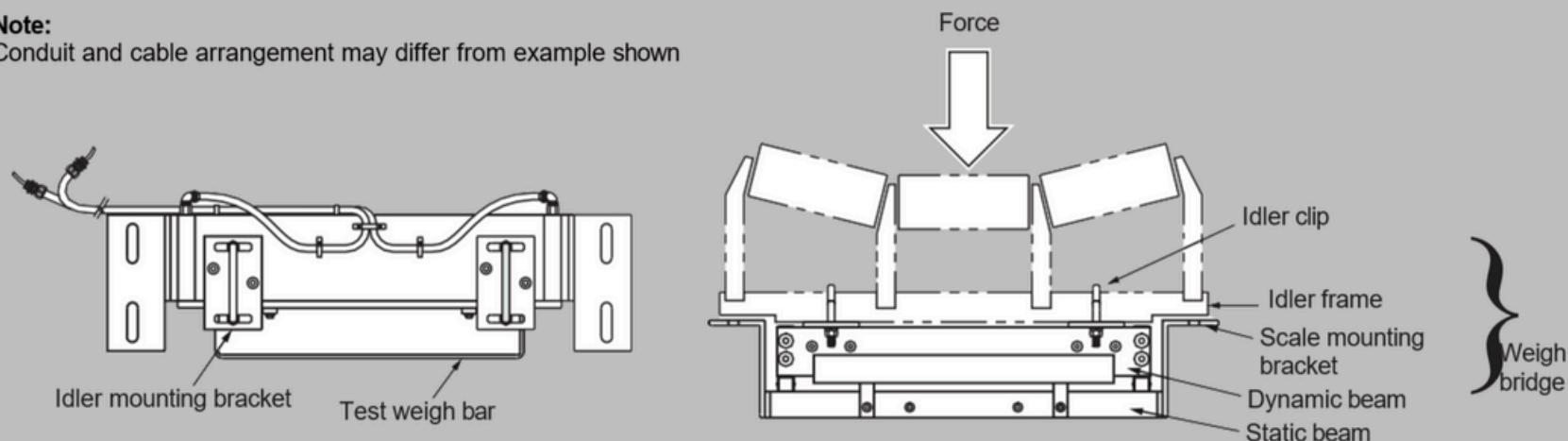
Application

Rubbex RMI belt scale consists of two or more RSI single idler belt scales installed in series. It provides high accuracy continuous in-line weighing on a variety of products in primary and secondary industries. The RMI system is proven in a wide range of tough applications from extraction to power generation, iron and steel, food processing and chemicals. The RMI is suitable for monitoring such diverse products as fertilizer, sand, grain, flour, coal, or sugar. The RMI's proven use of parallelogram-style load cells results in fast reaction to vertical forces, ensuring instant response to product loading. This enables it to provide outstanding accuracy and repeatability even with uneven or light loading, short idler spacing and fast belt speeds. Operating with Rubbex BW500 integrator (for custody transfer applications), the RMI provides indication of flow rate, total weight, belt load and belt speed of bulk solids materials on a belt conveyor. A speed sensor monitors conveyor belt speed for input to the integrator.

The RMI is installed in a simple drop-in operation and may be secured with just eight bolts and existing idler sets, secured to the dynamic beam. With no moving parts, maintenance is kept to a minimum, with just periodic calibration checks required.

Design of RSI/RMI Mounting

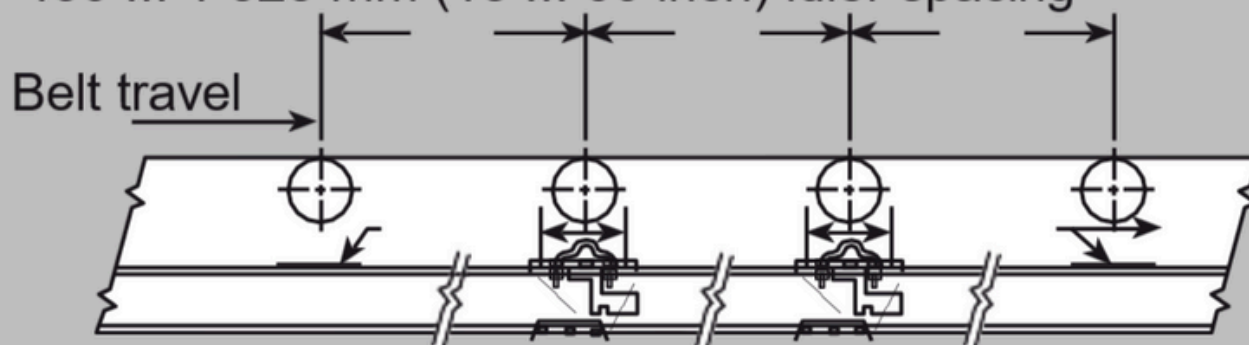
Note:
Conduit and cable arrangement may differ from example shown



Mounting (two or more RSI units)

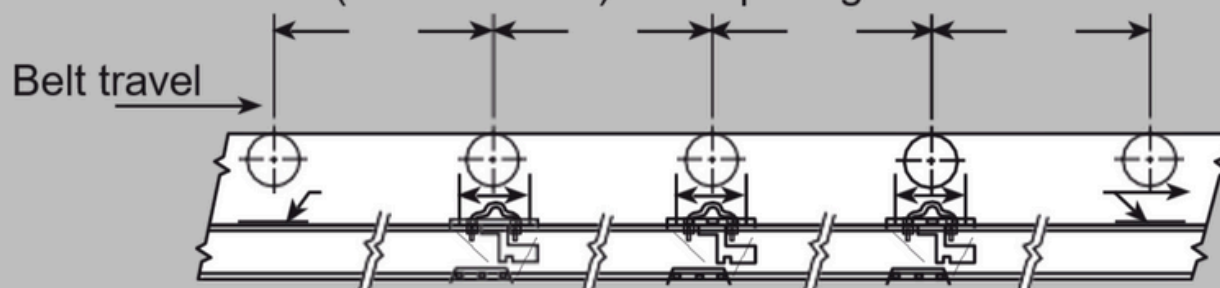
Applications with 2 RSIs (RMI-2)

450 ... 1 525 mm (18 ... 60 inch) idler spacing



Applications with 3 RSIs (RMI-3)

450 ... 1 525 mm (18 ... 60 inch) idler spacing



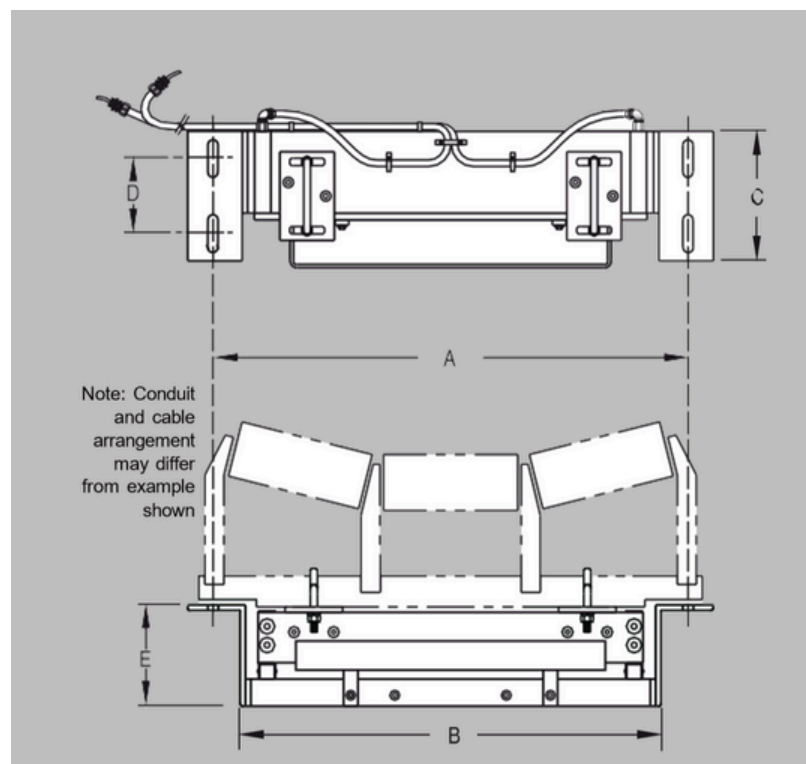
Technical Specifications Of RSI & RMI

Mode of operation	
Measuring principle	Strain gauge load cells measuring load on belt conveyor idler(s)
Typical application	
•RSI	Control in fractionated stone blending tunnels
•RMI	Custody transfer
Measurement accuracy	
Accuracy ¹⁾	
•RSI	± 0.5 % or better of totalization over 20 ... 100 % operating range
•RMI-2 (2 idler)	± 0.25 % or better of totalization over 20 ... 100 % operating range
•RMI-3 (3 idler) <i>Note: available with system specification option D only</i>	± 0.125 % or better of totalization over 25 ... 100 % operating range
Repeatability	± 0.1 %
Medium conditions Material temperature	-50 ... +200 °C (-58 ... +392 °F)
Belt design Belt width Belt speed	<ul style="list-style-type: none"> •18 ... 96 inch in CEMA sizes²⁾ •Equivalent to 500 ... 2 400 mm in metric size²⁾ •Refer to dimensions section Up to 5 m/s (1 000 fpm) ²⁾
Capacity	Up to 12 000 t/h (13 200 STPH) at maximum belt speed. Please contact a Siemens representative for higher rates. ²⁾
Conveyor incline	<ul style="list-style-type: none"> •± 20° from horizontal, fixed incline •Up to ± 30° with reduced accuracy³⁾

Technical Specifications Of RSI & RMI

Idlers Idler profile Idler diameter Idler spacing	<ul style="list-style-type: none"> •Flat to 35° •Up to 45° with reduced accuracy3) 50 ... 180 mm (2 ... 7 inch) 0.5 ... 1.5 m (1.5 ... 5.0 ft)
Load cell Construction Degree of protection Cable length Excitation Output Non-linearity and hysteresis Non-repeatability Capacity •Maximum ranges Overload Temperature	Stainless steel construction with 304 (1.4301) stainless steel cover Strain gauge protection: polybutadiene IP67, IP65 on hazardous approved models 3 m (10 ft) Note: to calculate installation cable length subtract 3 048 mm (120 inch) from the "A" dimension 10 V DC nominal, 15 V DC maximum 2 ± 0.002 mV/V excitation (nominal) at rated load cell capacity 0.02 % of rated output 0.01 % of rated output 25, 50, 100, 250, 500, 750, 1 000, 1 250, 1 500, 2 000 lb 150 % of rated capacity, ultimate 300 % of rated capacity •-50 ... +75 °C (-58 ... +167 °F) operating range, optional -50 ... +175 °C (-58 ... 347 °F) •-40 ... +65 °C (-40 ... +150 °F) com- pensated •-10 ... +40 °C (14 ... 104 °F) compensated on trade approved versions
Inter connection wiring(to integrator, per RSI)	< 150 m (500 ft) 18 AWG (0.75 mm²) 6 conductor shielded cable > 150 ... 300 m (500 ... 1 000 ft) 18 ... 22 AWG (0.75 ... 0.34 mm²), 8 conductor shielded cable

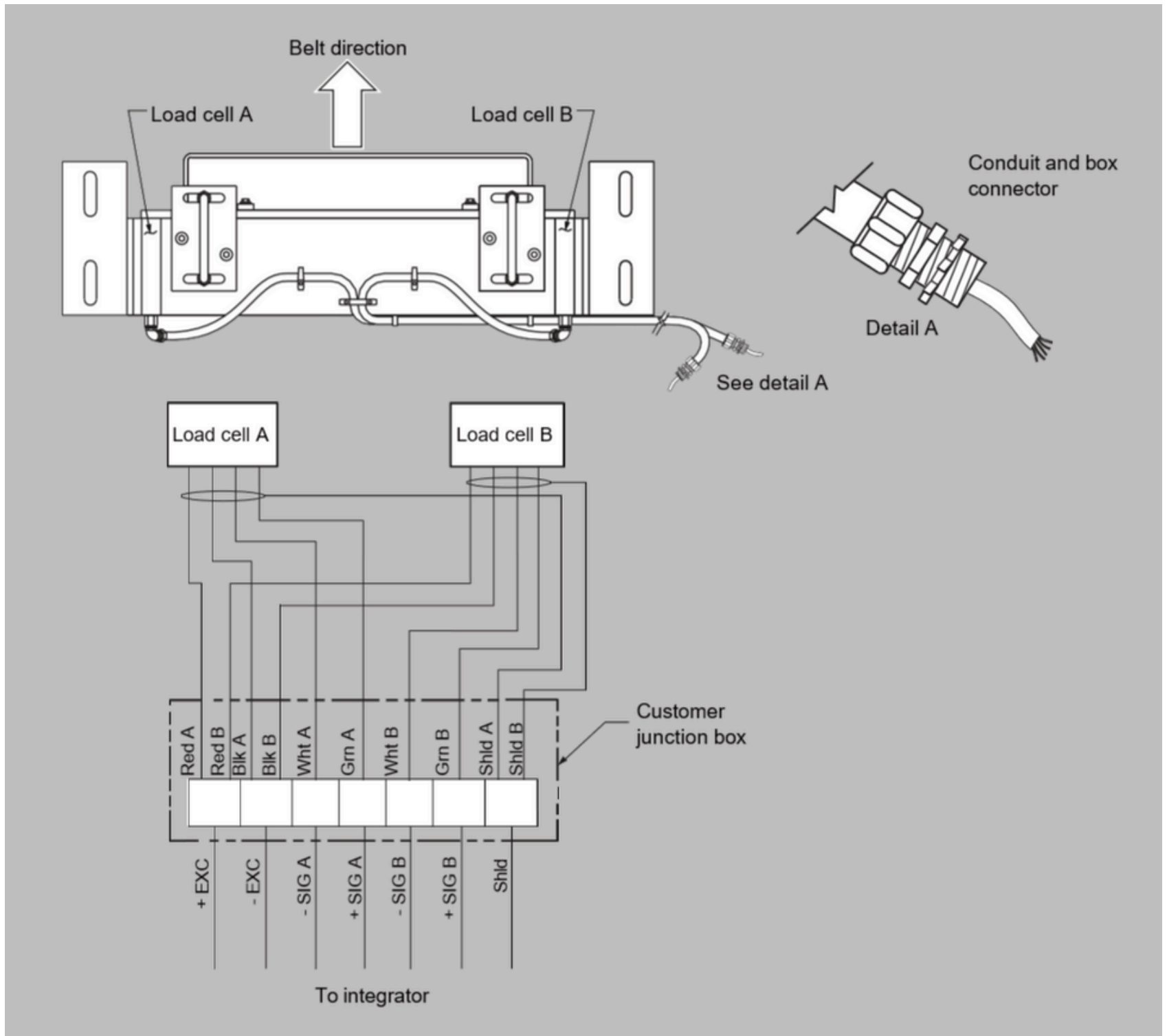
Dimensional drawings Of RSI & RMI



Dimensions Of RSI

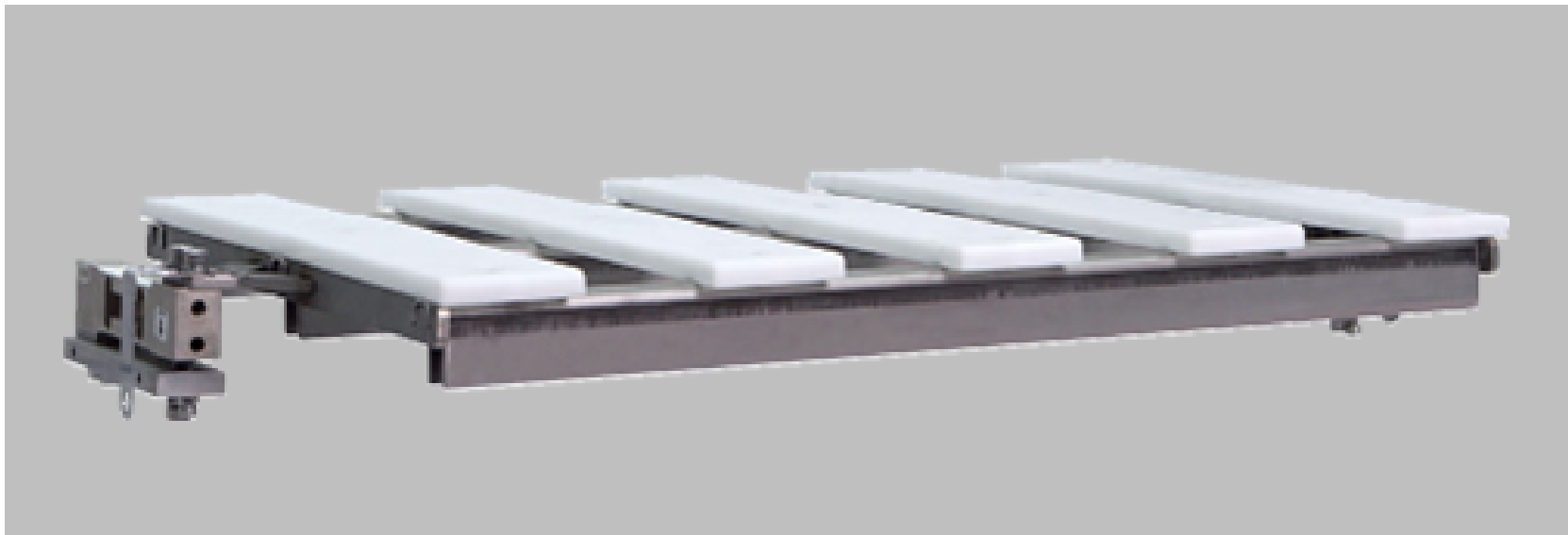
Conveyor belt width	Mounting scale width A	Minimum drop-in width B	C	D	E	Weight (approx.)
18 inch (457 mm)	27 inch (686 mm)	23.25 inch (591 mm)	9.5 inch (241 mm)	5.5 inch (140 mm)	7 inch (178 mm)	82 lb (37 kg)
20 inch (508 mm)	29 inch (737 mm)	25.25 inch (641 mm)	9.5 inch (241 mm)	5.5 inch (140 mm)	7 inch (178 mm)	85 lb (39 kg)
24 inch (610 mm)	33 inch (838 mm)	29.25 inch (743 mm)	9.5 inch (241 mm)	5.5 inch (140 mm)	7 inch (178 mm)	90 lb (41 kg)
30 inch (762 mm)	39 inch (991 mm)	35.25 inch (895 mm)	9.5 inch (241 mm)	5.5 inch (140 mm)	7 inch (178 mm)	99 lb (45 kg)
36 inch (914 mm)	45 inch (1 143 mm)	41.25 inch (1 048 mm)	9.5 inch (241 mm)	5.5 inch (140 mm)	7 inch (178 mm)	107 lb (49 kg)
42 inch (1 067 mm)	51 inch (1 295 mm)	47.25 inch (1 200 mm)	9.5 inch (241 mm)	5.5 inch (140 mm)	7 inch (178 mm)	116 lb (53 kg)
48 inch (1 219 mm)	57 inch (1 448 mm)	53.25 inch (1 353 mm)	9.5 inch (241 mm)	5.5 inch (140 mm)	7 inch (178 mm)	125 lb (57 kg)
54 inch (1 372 mm)	63 inch (1 600 mm)	59.25 inch (1 505 mm)	12 inch (305 mm)	8 inch (203 mm)	7 inch (178 mm)	175 lb (79 kg)
60 inch (1 524 mm)	69 inch (1 753 mm)	65.25 inch (1 657 mm)	12 inch (305 mm)	8 inch (203 mm)	7 inch (178 mm)	193 lb (88 kg)
66 inch (1 676 mm)	75 inch (1 905 mm)	71.25 inch (1 810 mm)	12 inch (305 mm)	8 inch (203 mm)	8 inch (203 mm)	229 lb (104 kg)
72 inch (1 829 mm)	81 inch (2 057 mm)	77.25 inch (1 962 mm)	12 inch (305 mm)	8 inch (203 mm)	8 inch (203 mm)	247 lb (112 kg)

Circuit diagrams Of RSI & RMI



Rubbex WD600 (Slider Bed Belt Scale)

Overview



Rubbex WD600 is a light- to medium-duty slider bed belt scale used for process and load-out control in manufacturing, including the food, pharmaceutical and tobacco industries.

Benefits

- Simple installation
- Long weigh span for more retention time on load cells

Application

Rubbex WD600 works with an existing flat belt conveyor and the selected Rubbex integrator. As material is moving along the conveyor belt and travels over the belt scale, it exerts a force proportional to the material load through the suspended weighbridge to the load cells. Rubbex WD600 reacts only to the vertical component of the applied force. The resulting movement in each load cell is sensed by its strain gauges. When the strain gauges are excited by voltage from the electronic integrator, they produce an electrical signal proportional to weight, which is then applied to the integrator.

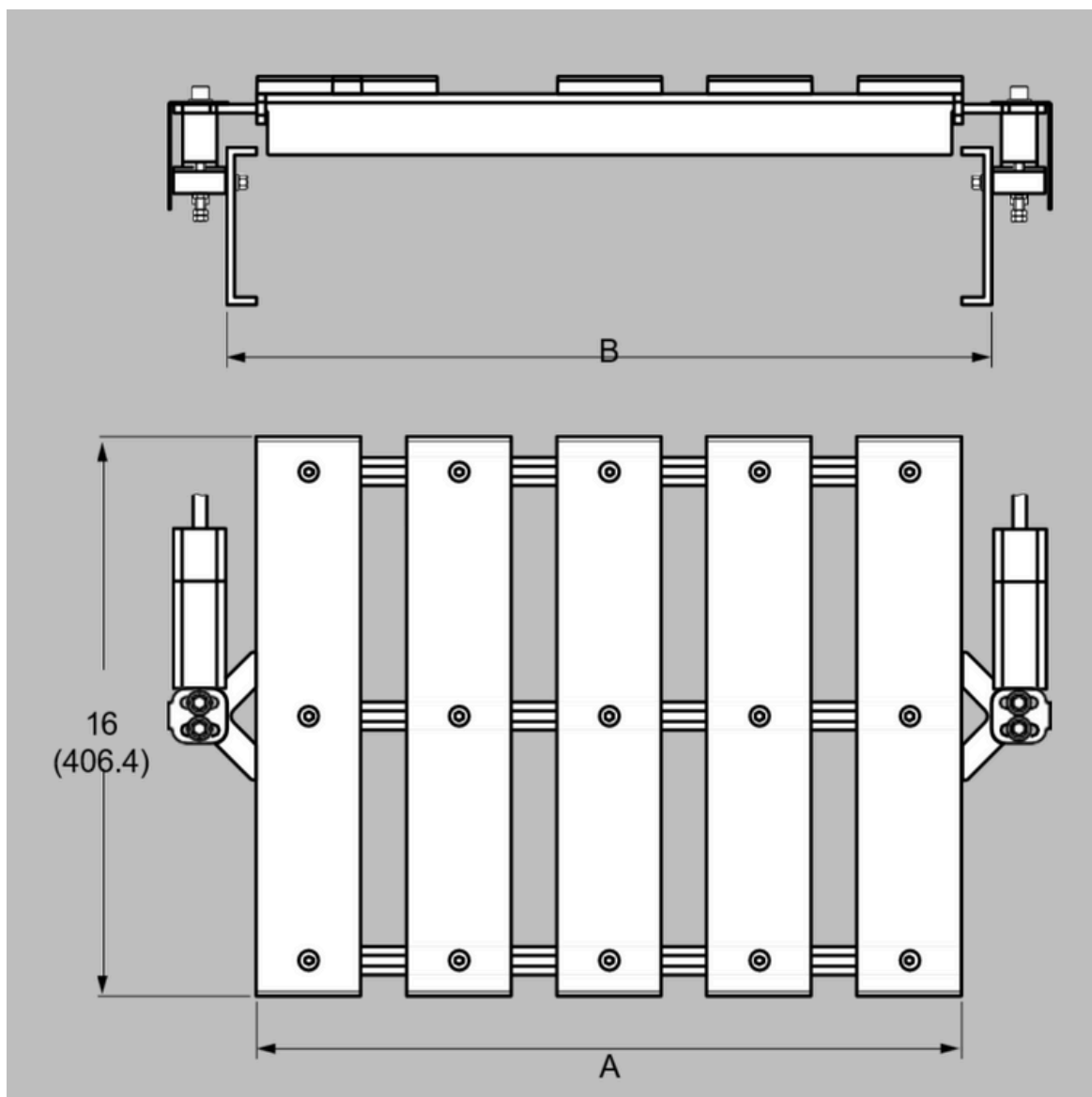
The vertical movement of the load cells is limited by the positive overload stop incorporated into the design of the load cell mount.

Technical Specifications Of WD600

Accuracy ¹⁾	± 0.5 ... 1 % totalization over 25 ... 100 % operating range, application dependent
Repeatability	± 0.1 %
Belt width	12, 18, 24, 30, 36, 42, 48 inch (300, 450, 600, 750, 900, 1 000, 1 200 mm)
Belt speed	2.0 m/s (400 fpm) maximum ²⁾
Capacity	Up to 100 t/h ²⁾
Conveyor incline	<ul style="list-style-type: none"> • ± 20° from horizontal, fixed incline • Up to ± 30° with reduced accuracy³⁾
Conveyor idler/slider profile	Horizontal
Loading	<ul style="list-style-type: none"> • Minimum 1.0 kg/m (0.6 lb/ft) • Maximum 76 kg/m (51 lb/ft)
Load cell Construction Degree of protection Cable length Excitation Output Non-linearity Non-repeatability Capacity Overload Temperature Scale construction	17-4 PH (1.4568) stainless steel or nickel plated alloy steel Strain gauge protection: silicon (nickel plated version only) <ul style="list-style-type: none"> • Stainless steel: IP68 • Nickel plated alloy steel: IP66 3 m (10 ft) 10 V DC nominal, 15 V DC maximum 2 mV/V 0.02 % of rated output 0.01 % of rated output Stainless steel range: 6, 12, 30 kg Nickel-plated range: 10, 15, 20, 30, 50 kg 150 % of rated capacity <ul style="list-style-type: none"> • -40 ... +65 °C (-40 ... +149 °F) operating range • -10 ... +40 °C (14 ... 104 °F) compensated • Stainless steel construction, bead blast finish (1 ... 6 µm, 40 ... 240 µin) • UHMW PE sliders
Hazardous locations	Consult the factory

Accuracy subject to: on factory approved installations the belt scale system's totalized weight will be within the specified accuracy when compared to a known weighed material test sample. The test rate must be within the specified range of the design capacity and held constant for the duration of the test. The minimum material test sample must be equivalent to a sample obtained at the test flow rate for three revolutions of the belt or at least ten minutes running time, whichever is greater.

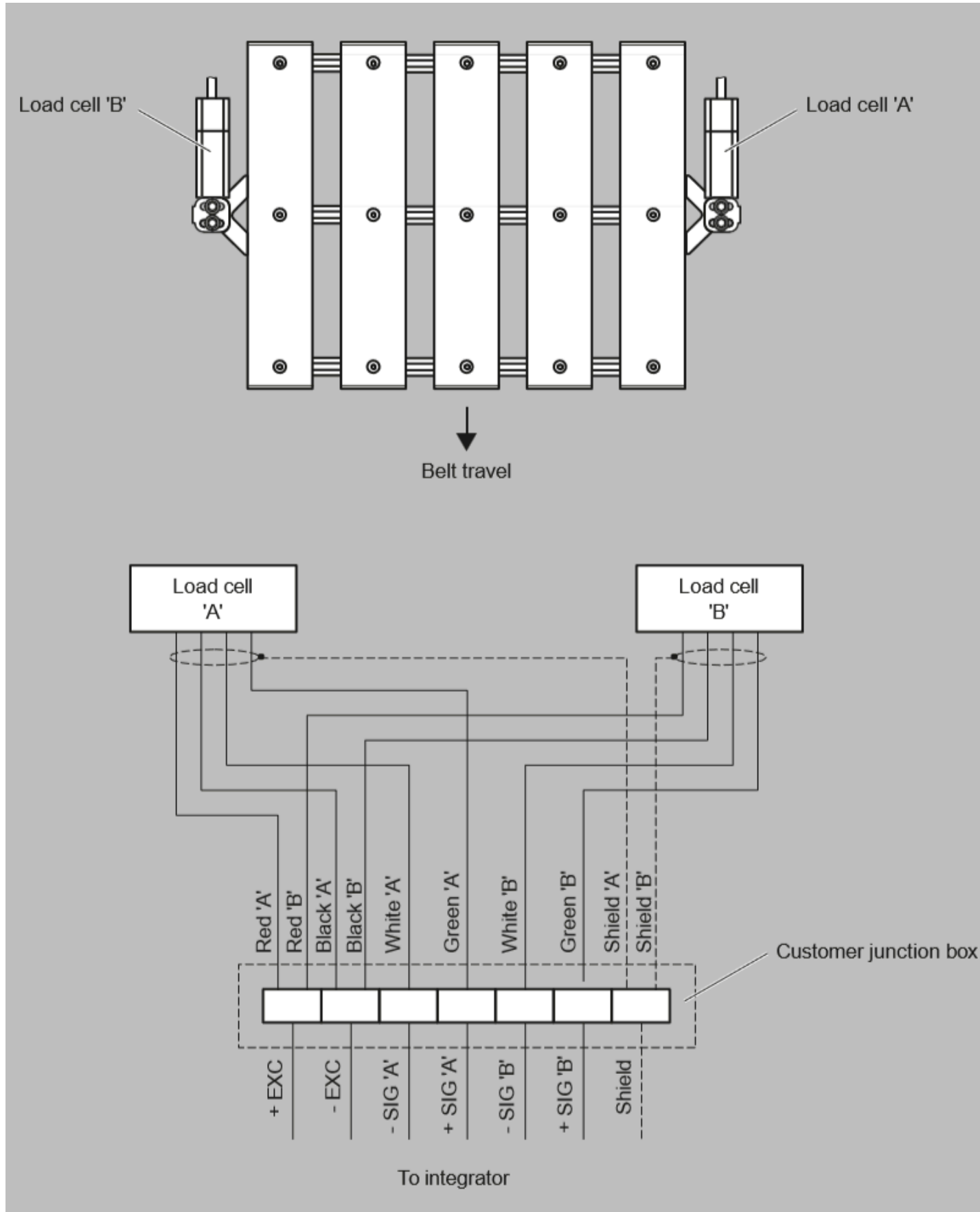
Dimensional drawings



Rubbex WD600, dimensions in inch (mm)

Belt with	A	B (min.)	B (max.)
12 (300)	14.25 (362)	15 (381)	16.5 (419)
18 (450)	20.25 (514)	21 (533)	22.5 (572)
24 (600)	20.25 (514)	27 (686)	28.5 (724)
30 (750)	32.25 (819)	33 (838)	34.5 (876)
36 (900)	38.25 (972)	39 (991)	40.5 (1 029)
42 (1 000)	44.25 (1 124)	45 (1 143)	46.5 (1 181)
48 (1 200)	50.25 (1 276)	51 (1 295)	52.5 (1 334)

Circuit diagrams



Rubbex TASS (belt speed sensor)

Overview

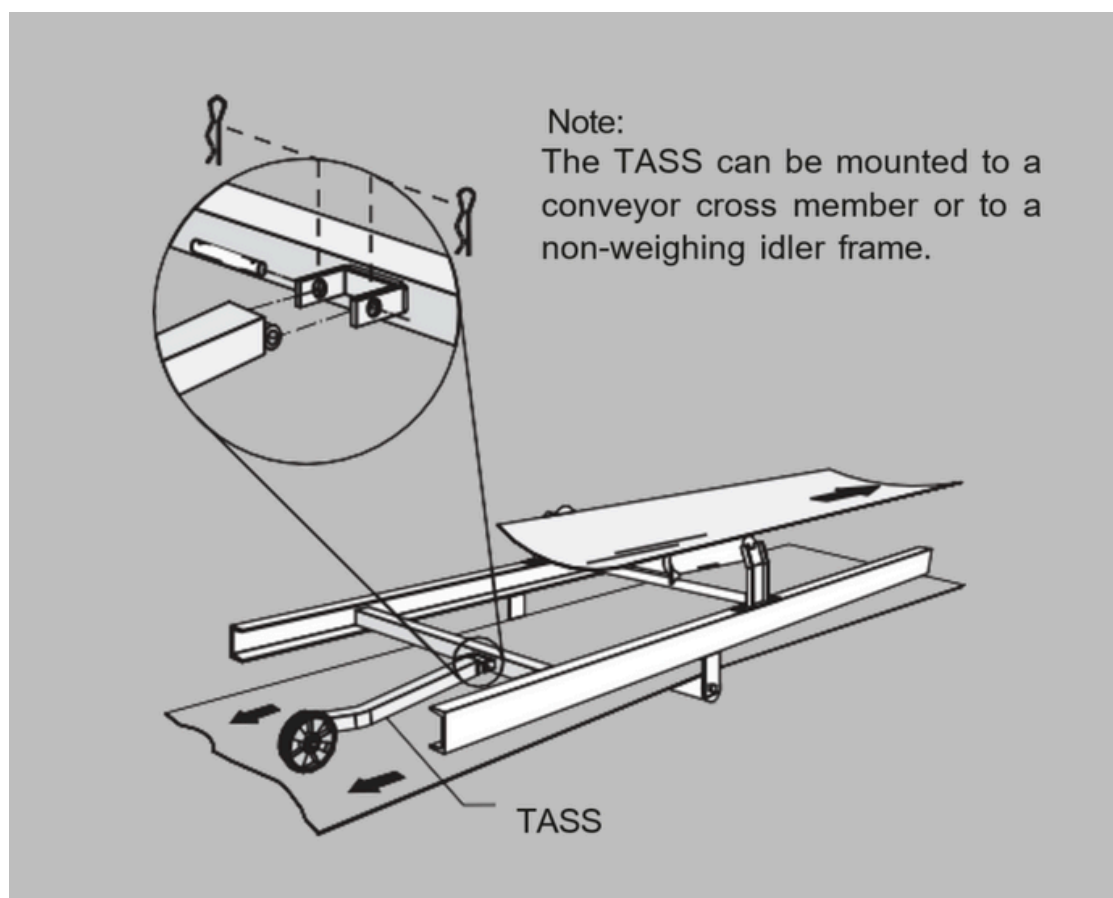


Rubbex TASS is a compact low-profile, wheel-driven return belt speed sensor, ideal for use on mobile crushers and in constricted spaces.

Benefits

- Rugged design
- Easy, low cost installation
- Compact, low-profile speed sensor
- IP67 rated

TASS Installation



Application

Rubbex TASS speed sensor operates in conjunction with a conveyor belt scale, providing signals to an integrator (Rubbex BW500, or SIWAREX FTC) which computes the rate of material being conveyed. The trailing arm speed sensor monitors conveyor belt speed, with the output signal transmitted by cable connection to the integrator.

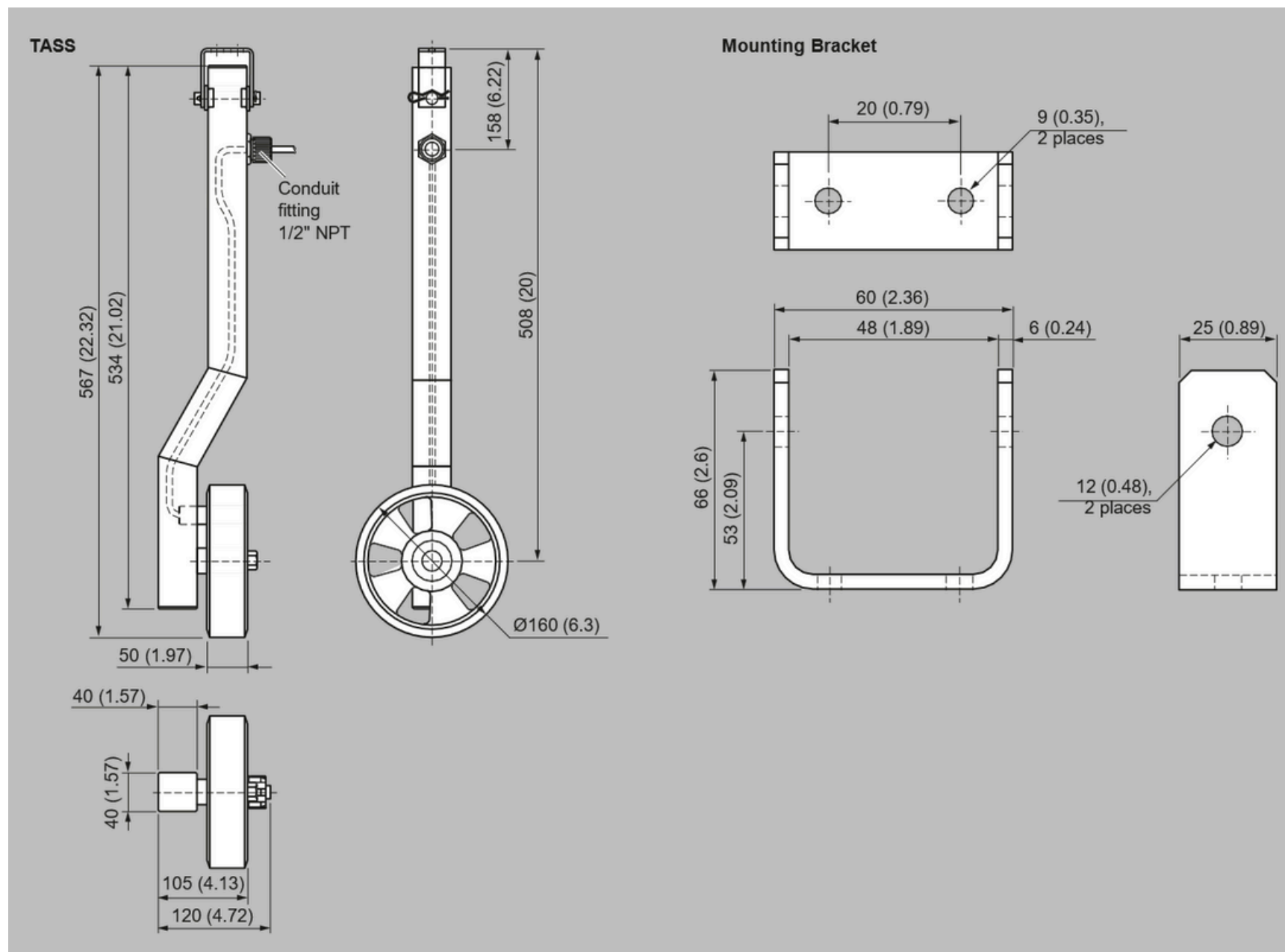
Easily installed close to the belt scale assembly, the TASS provides a signal generated as the wheel rotates on the return belt. Pulses are generated by the internal proximity switch detecting the rotation of the five spoked wheel. The TASS is mounted to the static beam of the belt scale or to a structural cross member via a pivoting bracket assembly.

The TASS is a compact, low-profile, rugged speed sensor, most often used on mobile crusher applications where space is limited. The TASS output can be applied to any Rubbex belt scale integrator.

Technical specifications

Mode of operation Measuring principle Typical application	Inductive proximity sensor provides pulse to integrator Mobile crusher
Input	<ul style="list-style-type: none"> •Bi-directional wheel rotation •25 ... 350 rpm
Output	<ul style="list-style-type: none"> •Inductive proximity sensor •Open collector, NPN, sinking output, max. 200 mA •Pulses: 5 per revolution •9.947 pulses/m, 3.03 pulses/ft
Rated operating conditions Operating temperature Max. belt speed Degree of protection	-25 ... +70 °C (-13 ... +158 °F) 3 m/s (590 fpm) IP67
Design Trailing arm assembly Wheel	Painted mild steel 160 mm (6.3 inch) diameter cast aluminum with polyurethane tread
Power supply	10 ... 35 V DC, 15 mA at 24 V DC maximum
Wiring Brown Black Blue	+ Excitation (10 ... 35 V DC) + Signal - Common
Interconnection wiring (to integrator)	<ul style="list-style-type: none"> •5 m, 3 conductor shielded PVC cable, 3 x 0.25 mm² (23 AWG), protected with 1 000 mm of flexible conduit •300 m (1 000 ft) maximum cable run
Approvals	CE, UKCA, RCM, EAC, KC

Dimensional drawings



Rubbex RBSS (Return Belt Speed Sensor)

Overview



Rubbex RBSS is a high resolution, wheel-driven return belt speed sensor.

Benefits

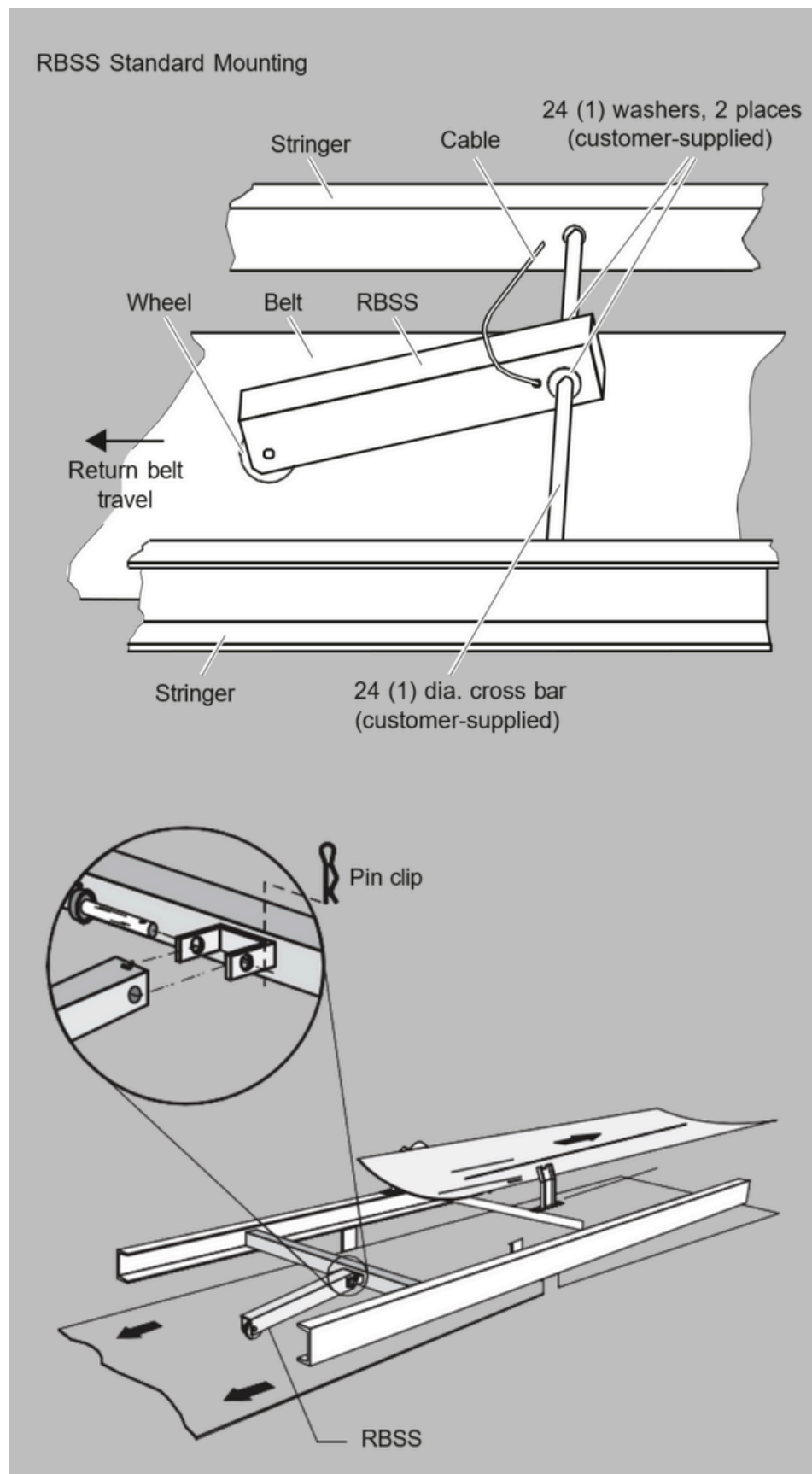
- Rugged design
- IP67 rated
- Easy, low cost installation
- Accurate belt speed detection

Application

Rubbex RBSS monitors conveyor belt speed, with the output signal transmitted by cable connection to the integrator (Rubbex BW500).

Easily installed close to the belt scale assembly, the RBSS provides a signal generated as the wheel on the sensor rotates on the return belt. To secure this cost-effective unit in place, position a cross bar between stringers - either just before or after a return belt idler, or use the optional mounting bracket. The weight of the RBSS ensures positive rotation of the wheel in the middle of the return belt, and pulses from the magnetic sensor are generated by the rotation of the 60 toothed speed sprocket driven by the wheel.

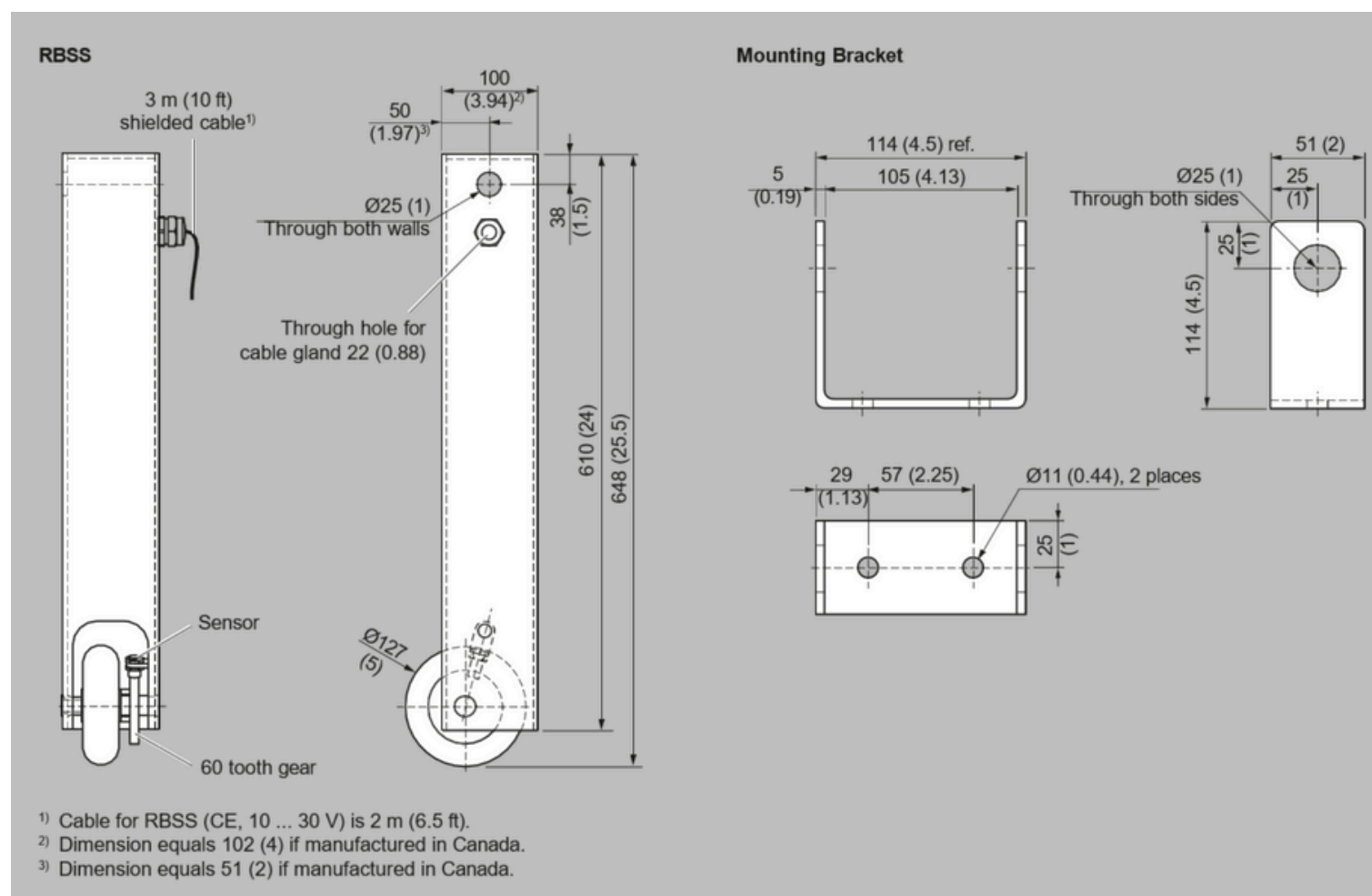
The RBSS output can be applied to any belt scale integrator.



Technical specifications

Mode of operation Measuring principle Typical application	Magnetic proximity sensor provides pulse to integrator Aggregate belt conveyors
Input	Wheel rotation 2 ... 450 rpm, bi-directional
Output	<ul style="list-style-type: none"> •60 pulses per revolution, 2 ... 450 Hz, 150.4 pulses/m (4.58 pulses/ft) •RBSS: open collector, NPN sinking output, max. 17 mA
Rated operating conditions Ambient temperature Max. belt speed Degree of protection	RBSS: -40 ... +105 °C (-40 ... +220 °F) 3 m/s (590 fpm) IP67
Design Trailing arm Sensor wheel	Painted mild steel 127 mm (5 inch) diameter, polyurethane tread
Power supply	RBSS: 4.5 ... 28 V DC, 16 mA
Interconnection wiring (to integrator)	<ul style="list-style-type: none"> •RBSS: 3 m, 3 conductor, 22 AWG shielded cable - 300 m (1 000 ft) maximum cable run

Dimensional drawings



RBSS, dimensions in mm (inch)

Rubbex WS300 (Shaft-Driven Speed Sensor)

Overview



Rubbex WS300 is a low- to high-resolution shaft-driven speed sensor.

Benefits

- Compact and economical
- Easy, low-cost installation
- Accurate belt speed detection
- Optional resolutions for measurement over a range of belt speeds
- Corrosion resistant

Application

Rubbex WS300 speed sensor operates in conjunction with a conveyor belt scale, providing a signal to an integrator which computes the rate of material being conveyed. At only 1.22 kg (2.68 lb.), it is one of the lightest and most durable units ever developed for monitoring conveyor belt speed. With its rugged cast aluminum housing, it is suitable for outdoor installation, and its low weight prolongs bearing life.

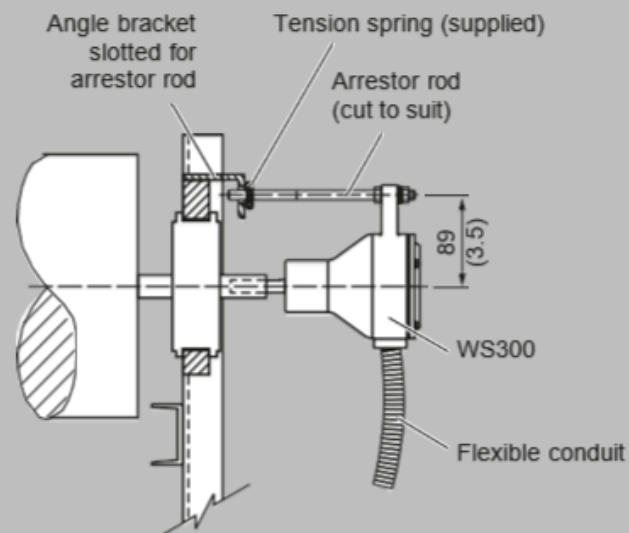
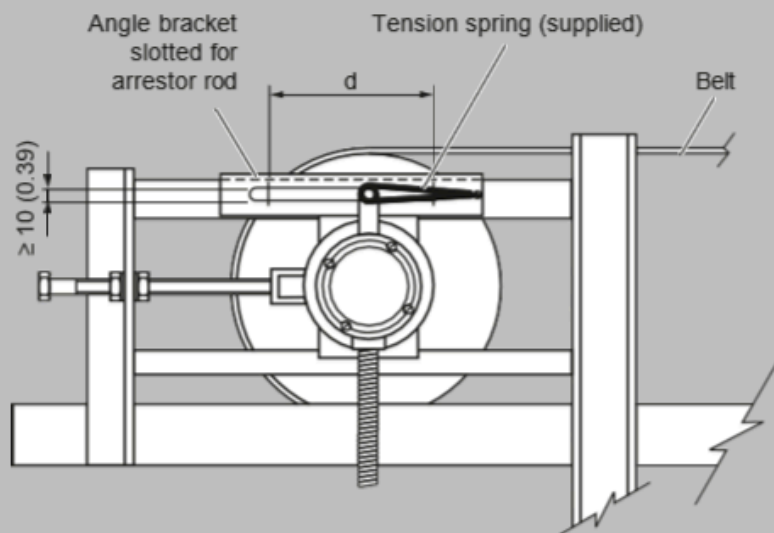
It is directly coupled to a rotating tail or bend pulley shaft to ensure accurate belt-travel readout, eliminating problems caused by belt slippage or material build-up. The WS300 converts shaft rotation into a pulse train of 32, 256, 1 000, or 2 000 pulses per revolution using a high precision rotary optical encoder. The digital signal is transmitted as speed input to any Rubbex integrator for calculation of belt speed, flow rate and totalized weight.

This low- to high-resolution speed sensor provides a frequency signal proportional to the shaft speed, enabling a range of speeds to be read accurately. The quadrature type shaft encoder prevents erroneous speed signals due to vibration or shaft oscillation. The WS300 is easily mounted and is bidirectional for either clockwise or counter-clockwise belt travel.

The IS version uses an inductive proximity switch detecting rotating targets.

Dimensional drawings

Mounting to a Tail Pulley

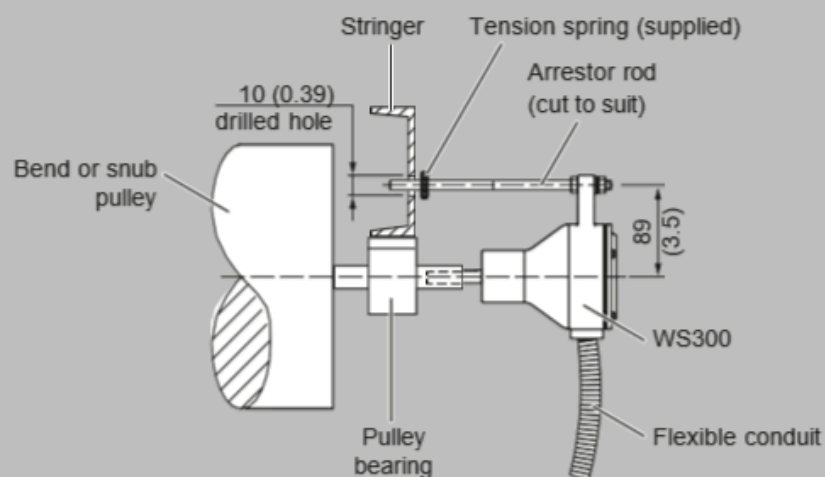
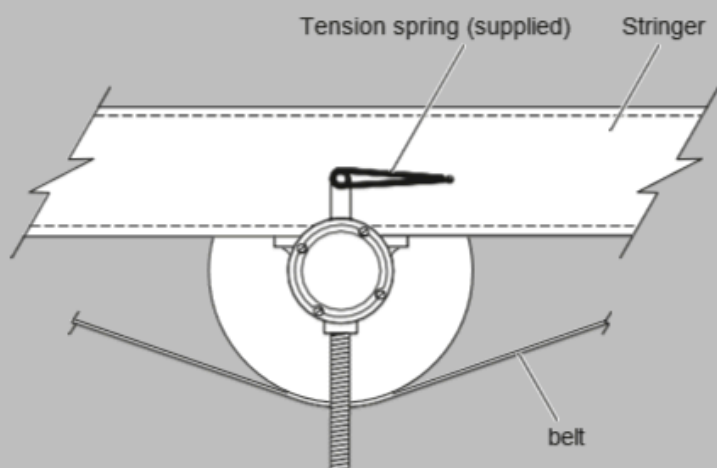


Notes:

Distance 'd' is the take-up travel on the tail pulley.

When adjusting the belt take-up, ensure that there is play on the arrestor rod. If the arrestor rod is pushed against the end of its travel slot, premature bearing wear may result.

Mounting to a Bend or Snub Pulley



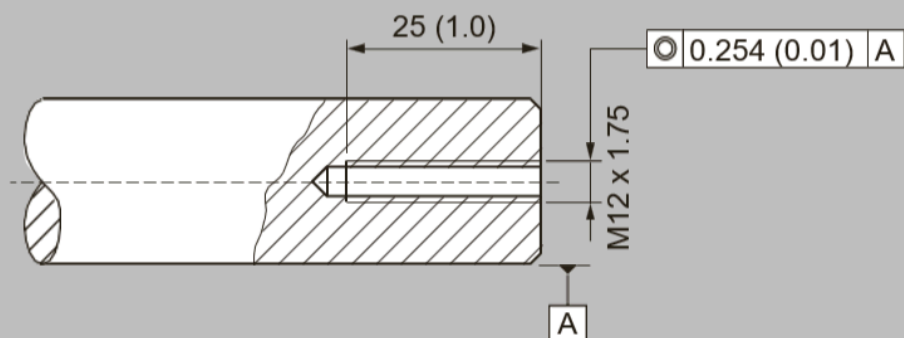
Notes:

When mounting to a bend or a snub pulley only, a 10 mm (0.39 inch) drilled hole is required for the arrestor rod.

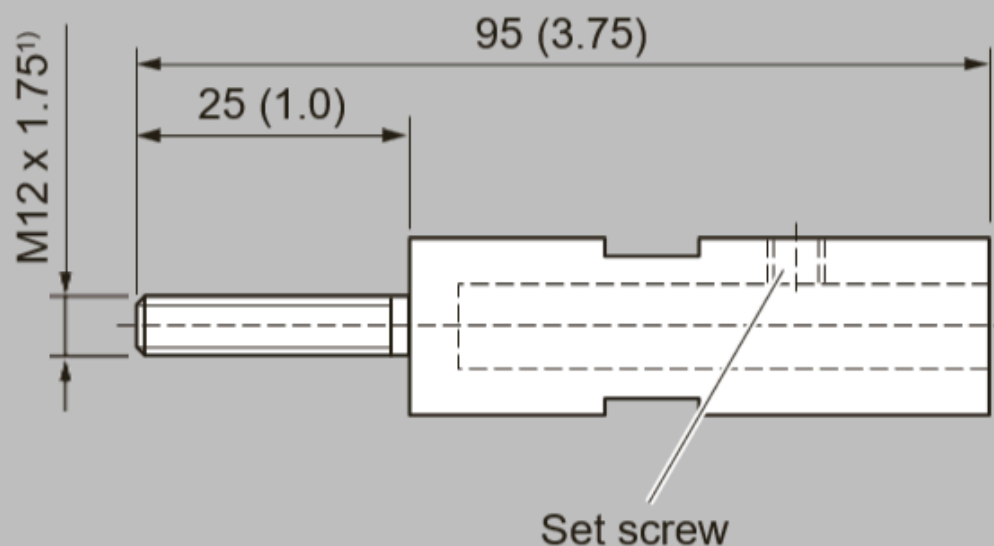
WS300 mounting, dimensions in mm (inch)

Dimensional drawings

Mounting using optional threaded shaft coupling



Use adhesive when installing threaded shaft coupling (e.g. Loctite).

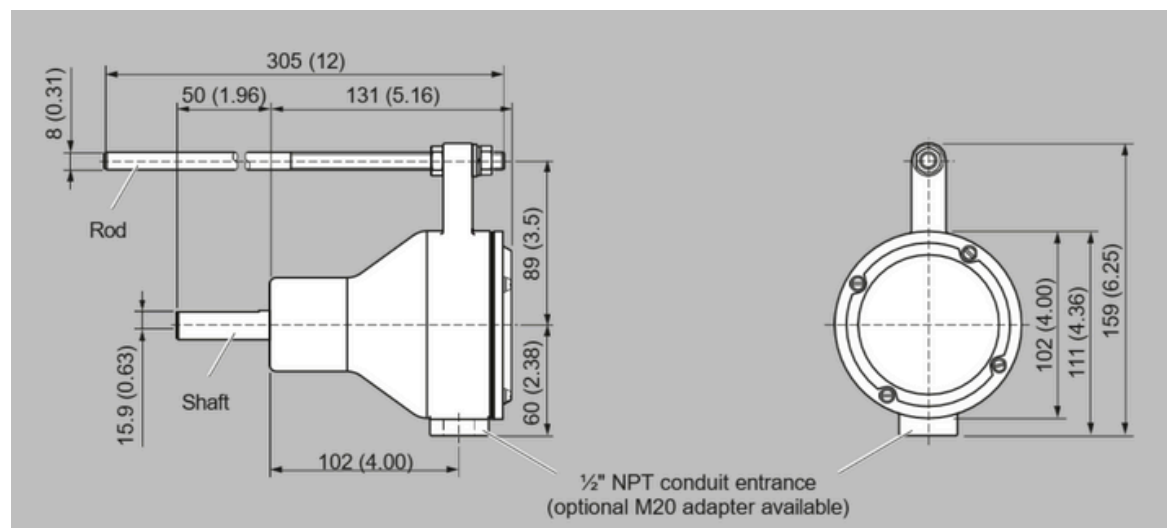


WS300 mounting using threaded shaft coupling, dimensions in mm (inch)

Dimensional drawings

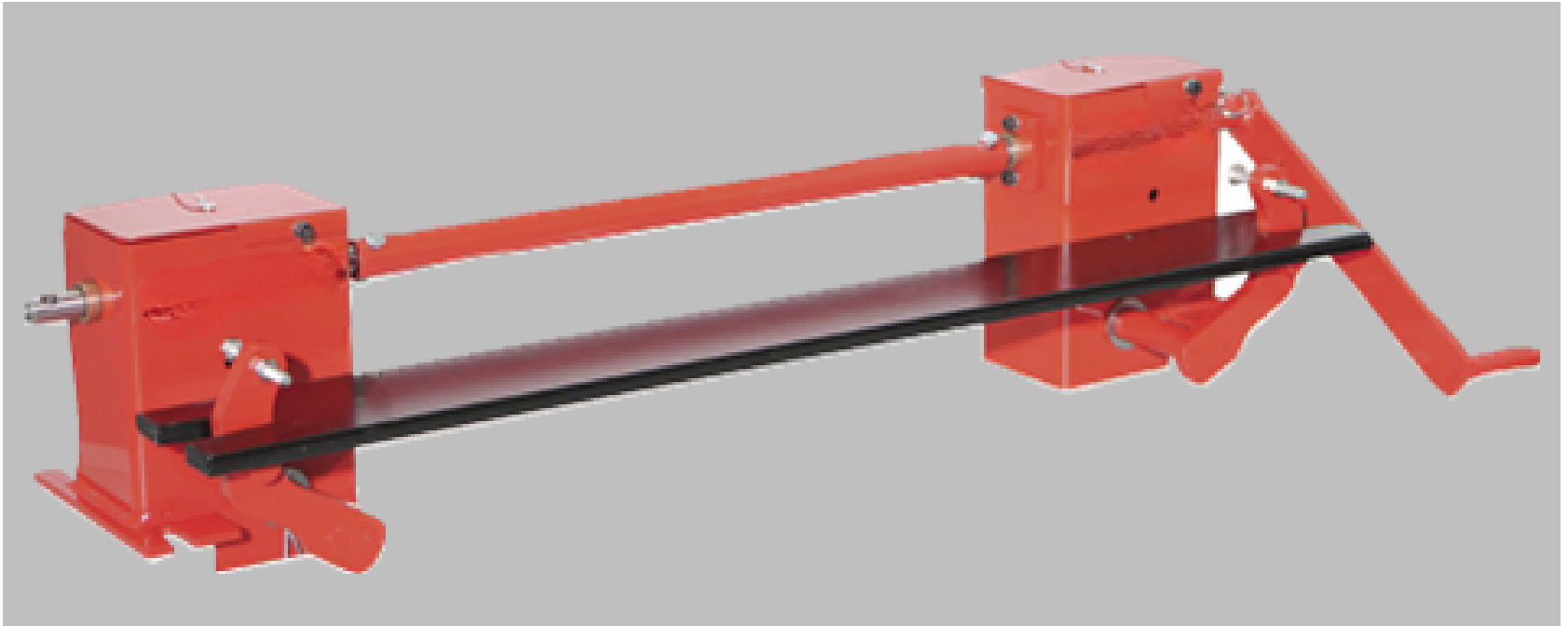
Mode of operation Measuring principle Typical application	Standard: pulse from shaft rotation using high precision rotary optical encoder IS: pulse from inductive proximity switch When a low- to high-resolution speed sensor is required
Input	Shaft rotation 0.3 ... 2 000 rpm, bi-directional, resolution dependent
Output	<ul style="list-style-type: none"> •Unidirectional open collector, NPN, sinking output •Standard: 10 ... 30 V DC, 25 mA max. •IS: NAMUR NC, load current, 0 ... 15 mA •32, 256, 1 000, or 2 000 pulses per revolution (ppr) •32 ppr: 2 000 max. rpm, 1 066 Hz •256 ppr: 2 000 max. rpm, 8 530 Hz •1 000 ppr: 900 max. rpm, 15 000 Hz •2 000 ppr: 450 max. rpm, 15 000 Hz
Rated operating conditions	
Ambient temperature	Standard: -40 ... +70 °C (-40 ... +158 °F) IS: -25 ... +100 °C (-13 ... +212 °F)
Degree of protection	NEMA 4X, Type 4X, IP65
Design Enclosure	<ul style="list-style-type: none"> •Rated NEMA 4X, Type 4X, IP65 •Painted aluminum •Stainless steel (optional)
Power supply	<ul style="list-style-type: none"> •Standard: 10 ... 30 V DC, 60 mA max. •IS: 5 ... 16 V DC, 25 mA max. (from IS switch isolator)
Cable Recommended	<ul style="list-style-type: none"> •Standard: 3-wire shielded, 0.82 mm² (18 AWG) •IS: 2-wire shielded 0.324 mm² (22 AWG) •Max. run 305 m (1 000 ft)

Dimensional drawings



Rubbex RWL (Weight Lifter)

Overview



Rubbex RWL weight lifter is a mechanical calibration weight lifter for RCS, RSI, RMI, and RUS belt scales.

Benefits

- Safe and easy application of belt scale reference weights with the operator remaining external to the conveyor
- Modular construction, easily adaptable to different conveyor widths
- Low profile allowing easy fit into belt conveyor
- Easy to install and apply
- Easy to store drive handle that can be applied to left or right side of RWL
- Security pin used to ensure safe storage of weight
- Can be used with new and existing applications

Application

Rubbex RWL mechanically raises and lowers the static weights and then stores the weights securely above the belt scale calibration arms, and allows the operator to lower and apply them safely without having to lean into the conveyor. The RWL is manually operated, and uses a high mechanical advantage to enable weights up to 340 kg (750 lb.) to be applied with very limited effort. The crank handle uses twelve rotations for full range of motion, and can be removed and stored for safety with the locking ball-pin which secures the RWL when it is not in use.

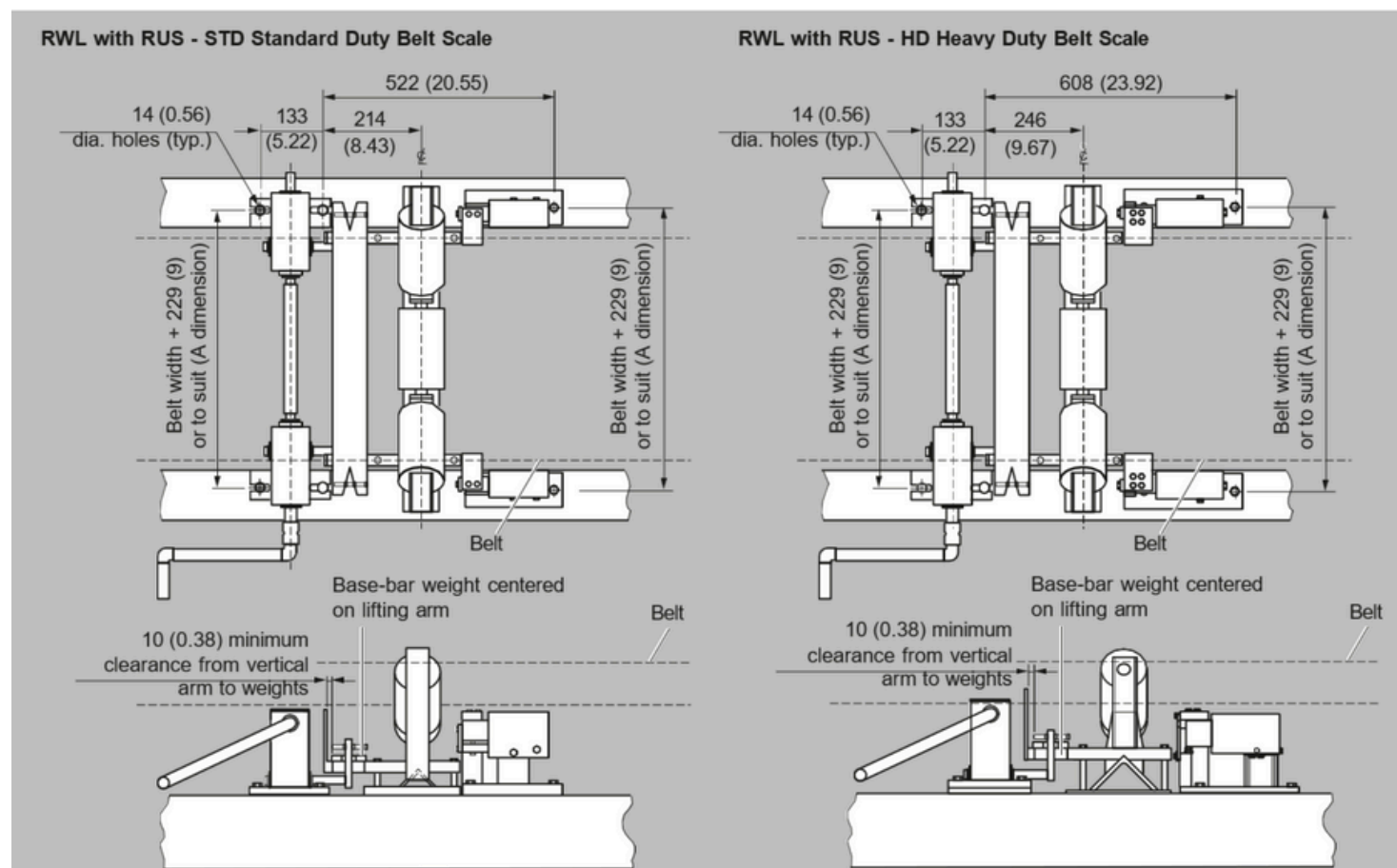
Two lifting arms support a base-bar weight above the calibration (test) weight brackets of the belt scale: either flat bar or round bar style calibration weights are applicable. Locating notches in the base-bar weight engage the calibration weights securely on the lifting arms in the stored position, and the gear drive locks the lifting arms in place.

Installation is easy, just four bolt holes to drill after locating the MWL gear modules (LH and RH) on the conveyor with respect to the belt scale. After running the RWL empty to ensure proper alignment, and then tightening mounting bolts, you are ready for the loading of the calibration weights. This is the last time that they will have to be lifted by hand.

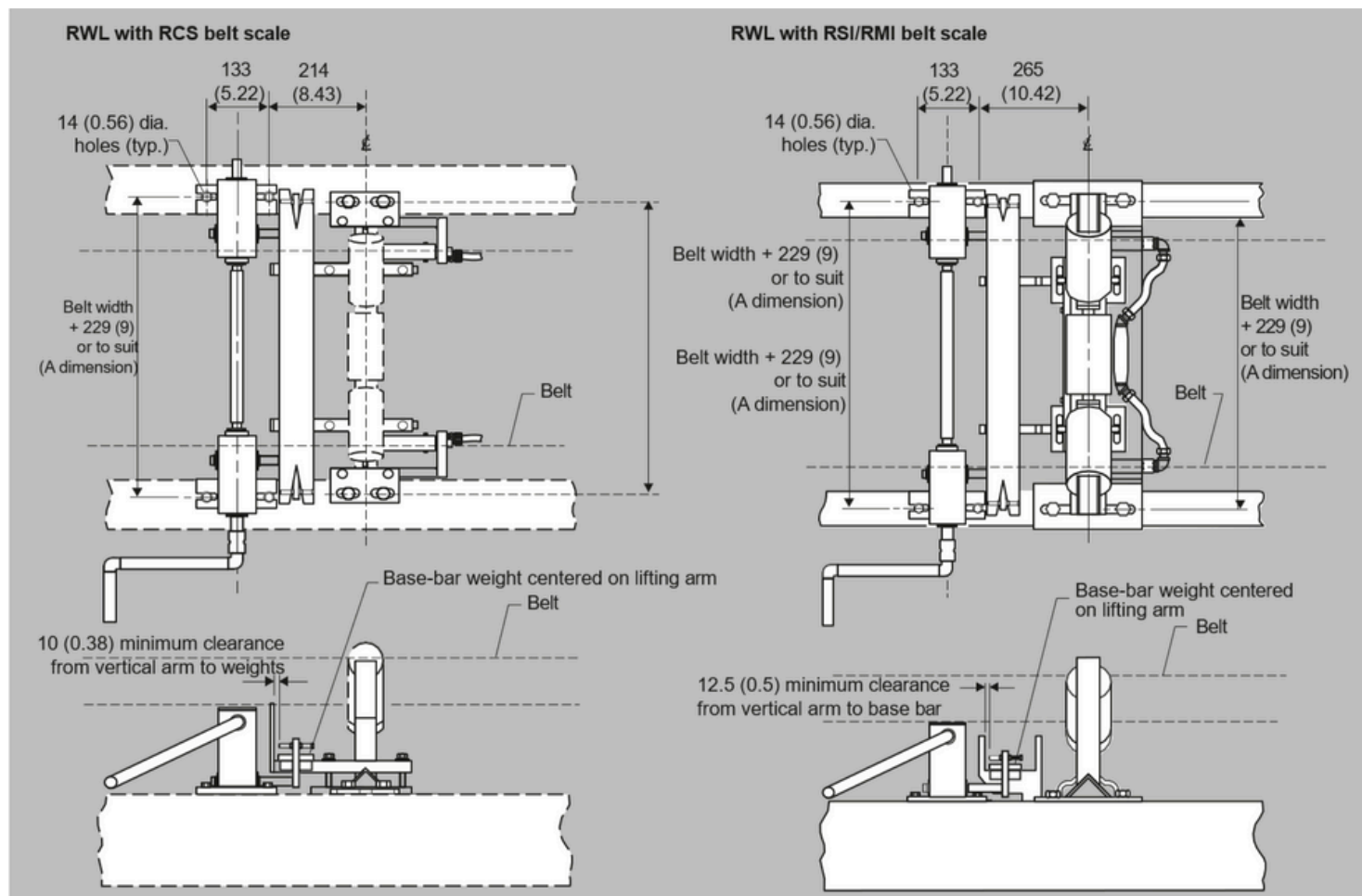
Technical specifications

Mode of operation Principle of operation Typical application	Mechanical gear drive Belt scale calibration
Medium conditions Max. ambient temperature	75 °C (167 °F)
Belt design Belt width Conveyor incline	<ul style="list-style-type: none"> •MCS: up to 1 600 mm (60 inch) CEMA width •MUS-STD standard duty: up to 1 000 mm (42 inch) CEMA width •MUS-HD heavy-duty: up to 1 600 mm (60 inch) CEMA width •MSI: 18 ... 96 inch CEMA belt width ± 15° from horizontal
Idlers Idler spacing	20° or more troughed idlers Minimum of 610 mm (24 inch)
Calibration weight capacity	Up to 340 kg (750 lb)
Crank arm Mechanical advantage Number of revolutions required for raising or lowering	20:1 12
Mounting dimensions	See reverse for standard and heavy-duty MUS, MCS, and MSI/MMI belt scales

Dimensional drawings



Dimensional drawings



Rubbex Roller test chains

Overview



Rubbex Roller test chains are used for belt scale calibration when material tests are not practical. All test chains are bushed. Minimum length is 4 feet (1.2 m).

Benefits

- Heavy-duty design for rugged applications and long life
- Precision machined components for accurate calibration
- Bushed rollers to ensure rotation during calibration
- Alternative to material tests when they are not possible

Application

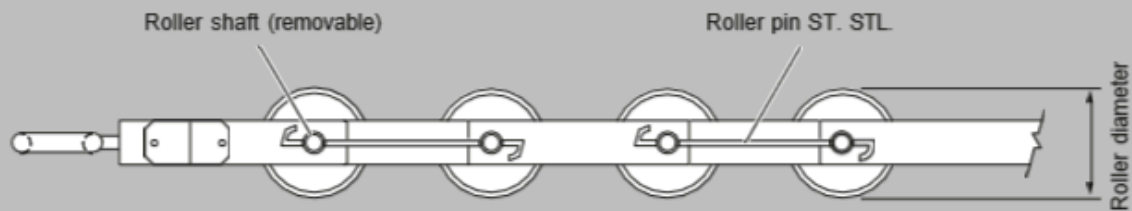
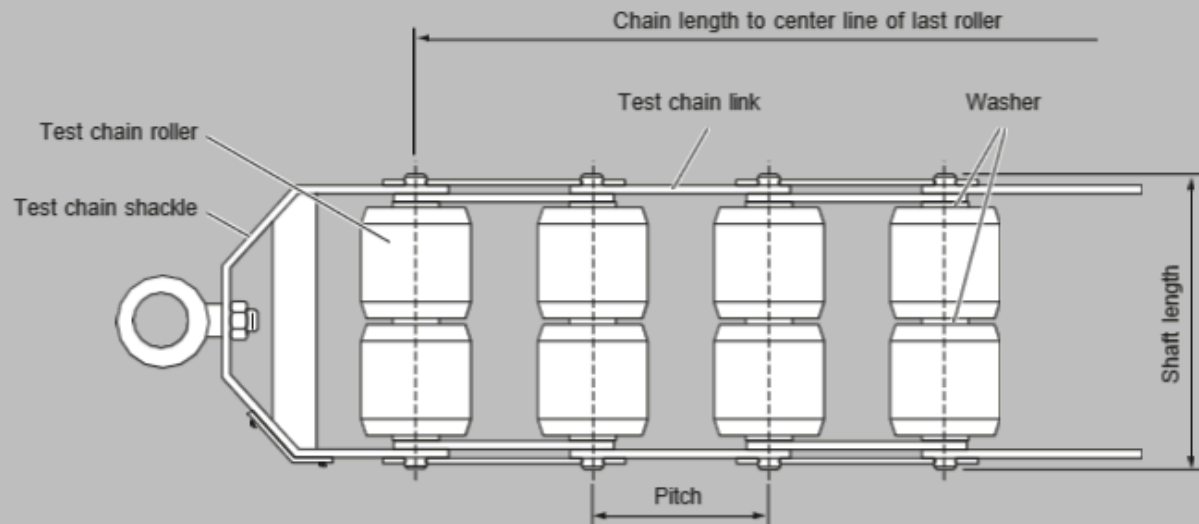
Rubbex calibration test chains provide simulated material flow on a conveyor belt for use with belt scale calibration. Designed for use in environments where material tests cannot be performed, test chains come in a variety of capacity options for use in any application. They ensure constant and uniform belt loading similar to material being conveyed, and can be stored on a storage reel for quick and easy application. The use of a calibration test chain ensures that production totals are guaranteed.

Technical specifications

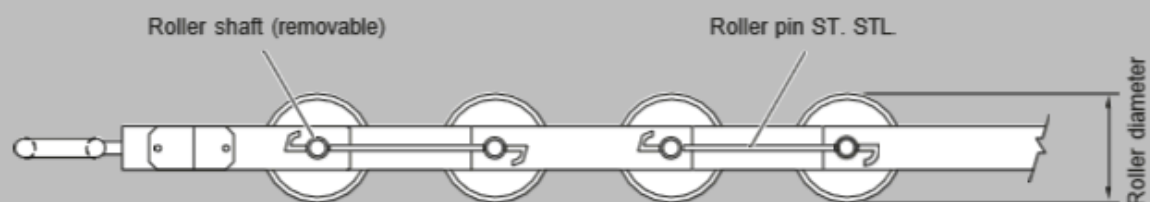
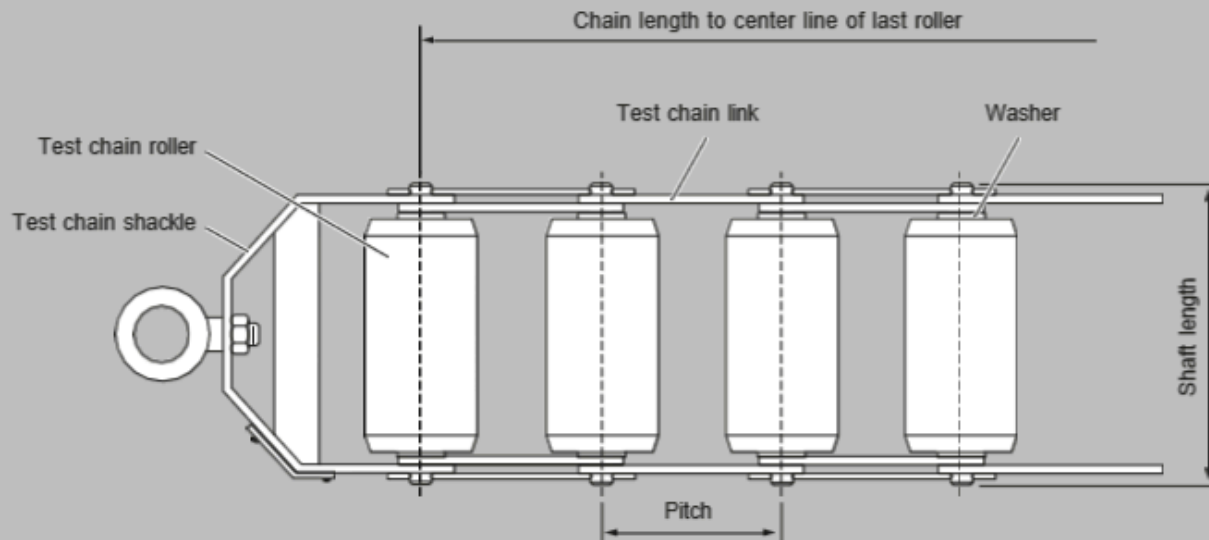
Mode of operation Principle of operation	Rides on carrying side of belt to simulate material loading
Medium conditions Max. ambient temperature	65 °C (150 °F)
Design Belt loading to meet any application	5 lb/ft (7.4 kg/m) ... 100 lb/ft (148.8 kg/m)
Length	Made to suit conveyor design
Idler	Flat to 45° troughed idlers
Max belt speed	5 m/s 1 000 fpm
Mounting	Connected to conveyor at start and end of chain at both sides for uniform loading. Storage and application with test chain storage reel.

Dimensional drawings

Double roller

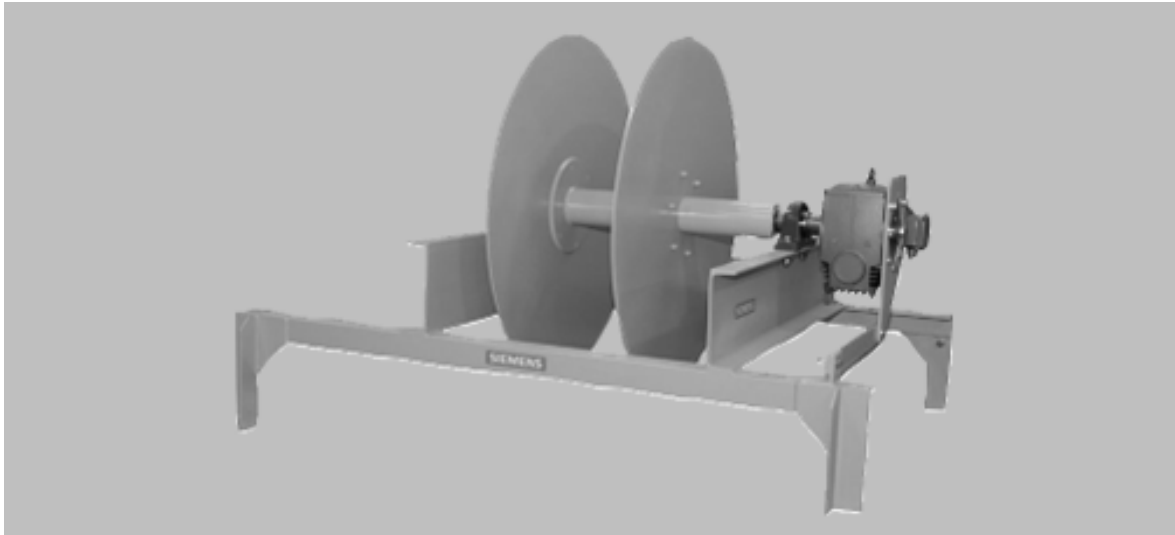


Single roller



Rubbex Test chain storage reel

Overview



Rubbex Test chain storage reels are used to store roller test chains. All test chain storage reels come with a geared brake motor

Benefits

- Mounts to existing conveyor structure above belt
- Motorized application and retraction of test chains for calibration
- Fast and easy calibration

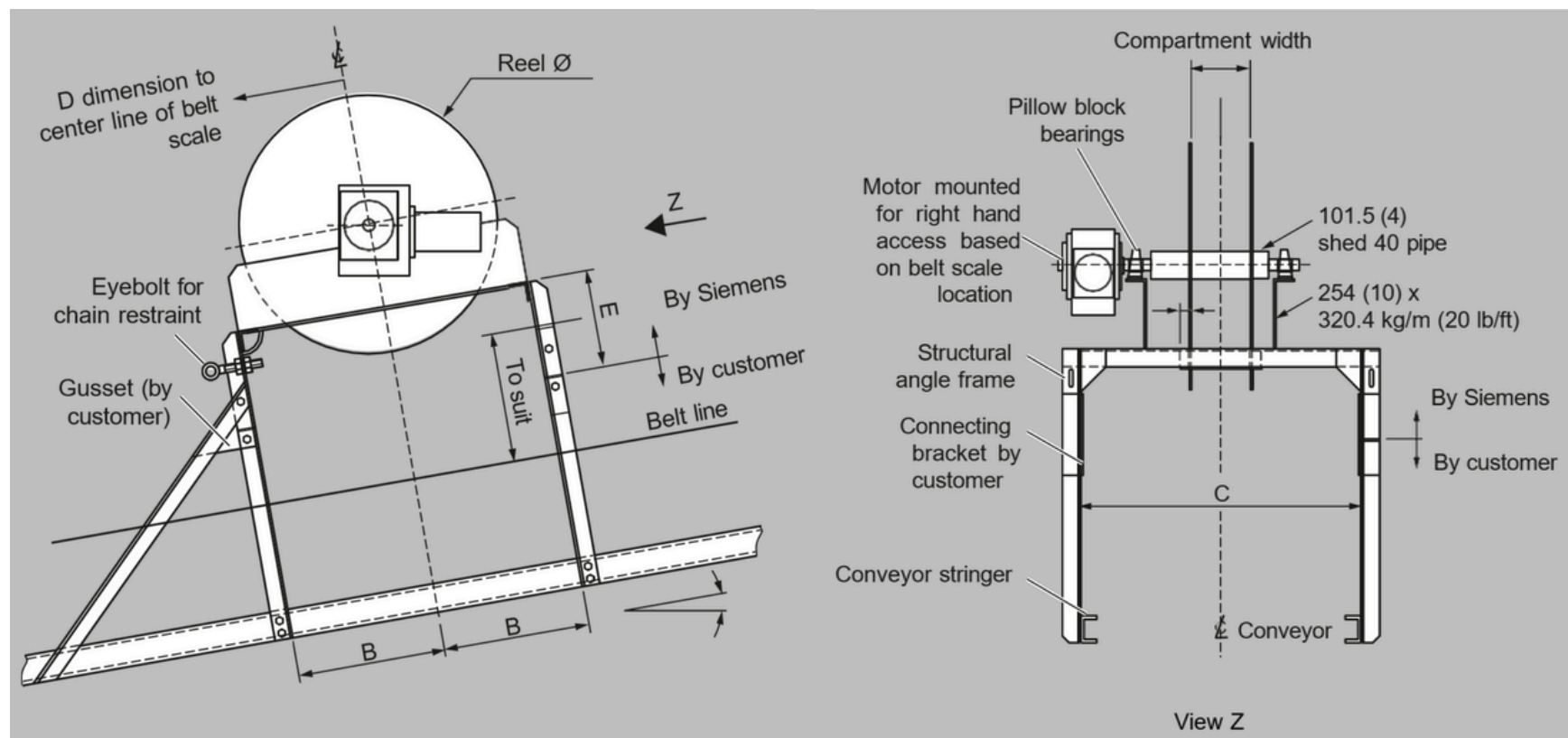
Application

Rubbex calibration test chain storage reels provide motorized application and retraction of test chains. Complete with an AC motorized storage reel, test chain reels ensure safe and quick use of calibration test chains. Designed for use in environments where material tests cannot be performed, test chain storage reels are available in any belt width to meet existing customer conveyor geometry. For linearity tests dual compartment reels are available for different chain weight calibration. Test chain storage reels have a brake integral to the motor ensuring that test chains do not un-reel during power outages or material running.

Technical specifications

Medium conditions Operating temperature	-10 ... +60 °C (14 ... 140 °F)
Design	<ul style="list-style-type: none"> •C5-M rated polyester painted structural steel •10 mm (3/8 inch) galvanized rope provided for chain spooling •Self-aligning pillow block bearings
Reel	Up to 1 524 mm (60 inch) Chain application at 7 ... 10 RPM
Drive motor	TEFC, AC, three phase motor with shaft mounted helical bevel gear reducer

Dimensional drawings



Reel Ø	B	E
915 (36)	520 (20.5)	340 (13.25)
1 070 (42)	600 (23.5)	340 (13.25)
1 220 (48)	670 (26.5)	340 (13.25)
1 520 (60)	830 (32.5)	450 (17.75)

Rubbex Bend Pulleys

Overview



Return belt driven pulley provides rotation for shaft-driven speed sensors. 4.5 inch size is self-cleaning.

Benefits

- Heavy-duty design for high belt tension
- Self-cleaning 114 mm (4.5 inch) diameter option
- Steel drum 152 mm (6 inch) diameter option
- Steel drum 152 mm (6 inch) with 6 mm (¼ inch) rubber lagged option
- Spherical self-aligning pillow block bearings
- Fast installation, easy maintenance

Application

Rubbex bend pulleys provide constant belt contact for use with Rubbex speed sensors. Designed for use in rugged operating environments common to mining, aggregates, cement, minerals, and other process industries. They ensure concentric speed sensor rotation to reduce premature bearing failure. The use of a bend pulley driven speed sensor ensures no modification is required on any existing conveyor shaft. Options include stainless steel construction, epoxy painting, polymer bearings, self-cleaning style, and lagged style.

Technical specifications

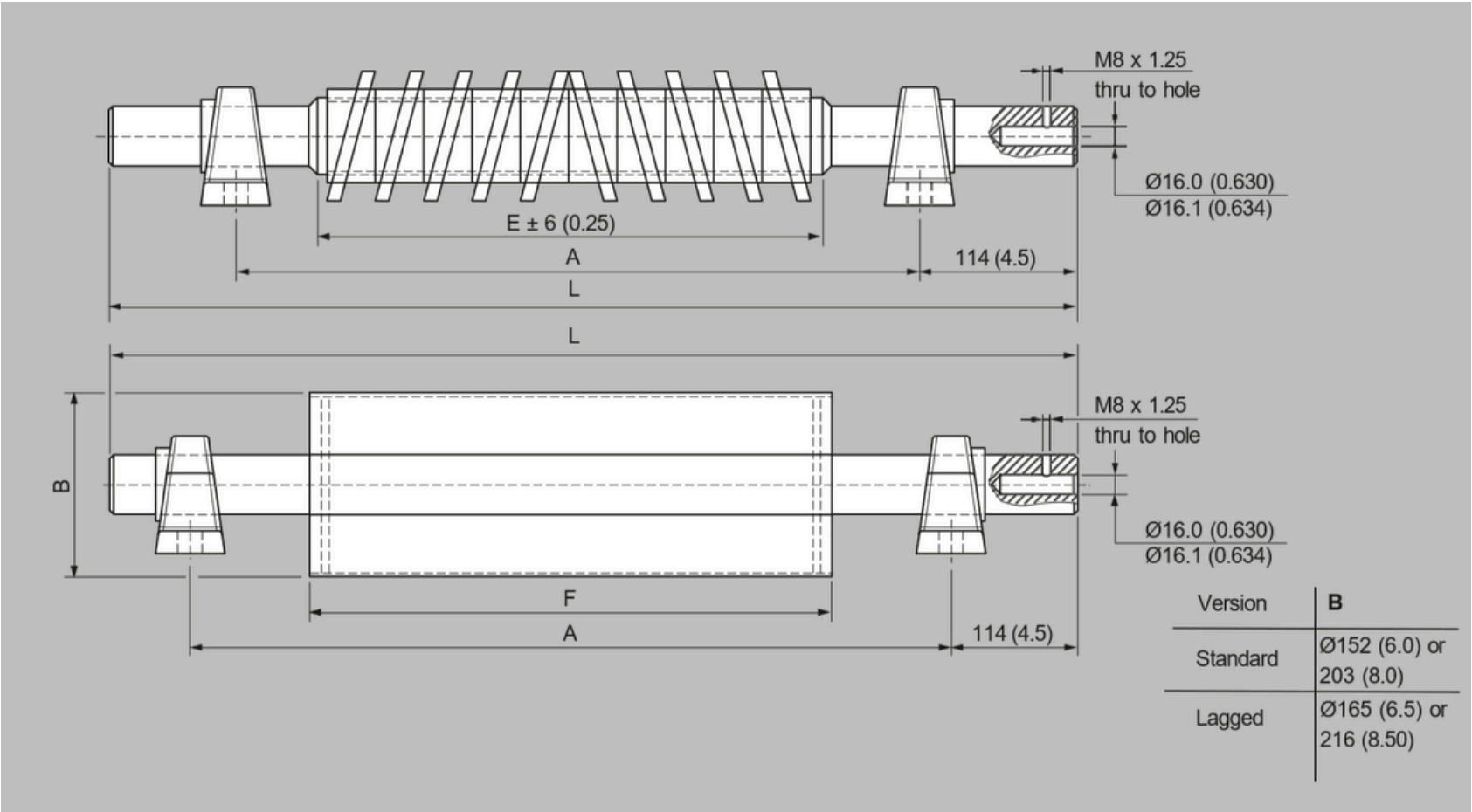
Typical application	Mining, aggregates, cement, minerals, and other process industries
Medium conditions Operating temperature	-40 ... +110 °C (-40 ... +230 °F)
Shaft material	Mild steel 316 (1.44) stainless steel, option
Pulleys	
Self-cleaning rubber disc style	114 mm (4.5 inch) diameter
Steel drum	152 mm (6 inch) diameter
Steel drum	152 mm (6 inch) diameter with 6 mm (¼ inch) rubber lagged option
Bearings	<ul style="list-style-type: none"> •Heavy-duty self-aligning pillow block bearings, standard •Polymer self-aligning pillow block bearings option
Belt speed Self-cleaning Drum	1.79 m/s (350 fpm) max. 3 m/s (600 fpm)

Belt Size and dimensions

Belt size	E	A	L	F
18 inch, 20 inch	18 inch (460 mm), 20 inch (508 mm)	27 inch (686 mm), 29 inch (737 mm)	34.5 inch (876 mm)	20 inch (508 mm)
24 inch	24 inch (610 mm)	33 inch (838 mm)	40.5 inch (1 029 mm)	26 inch (660 mm)
30 inch	30 inch (762 mm)	39 inch (991 mm)	46.5 inch (1 181 mm)	32 inch (812 mm)
36 inch	36 inch (915 mm)	45 inch (1 143 mm)	52.5 inch (1 334 mm)	38 inch (965 mm)
42 inch	42 inch (1 066 mm)	51 inch (1 295 mm)	58.5 inch (1 486 mm)	44 inch (1 118 mm)
48 inch	48 inch (1 220 mm)	57 inch (1 448 mm)	64.5 inch (1 638 mm)	51 inch (1 296 mm)
54 inch	54 inch (1 371 mm)	63 inch (1 600 mm)	70.5 inch (1 791 mm)	57 inch (1 448 mm)
60 inch	60 inch (1 524 mm)	69 inch (1 753 mm)	76.5 inch (1 943 mm)	63 inch (1 600 mm)
66 inch	66 inch (1 676 mm)	75 inch (1 905 mm)	82.5 inch (2 096 mm)	69 inch (1 752 mm)
72 inch	72 inch (1 828 mm)	81 inch (2 057 mm)	88.5 inch (2 248 mm)	75 inch (1 905 mm)
78 inch	78 inch (1 981 mm)	87 inch (2 210 mm)	94.4 inch (2 400 mm)	81 inch (2 057 mm)
84 inch	84 inch (2 133 mm)	93 inch (2 362 mm)	100.5 inch (2 553 mm)	87 inch (2 210 mm)
90 inch	90 inch (2 286 mm)	99 inch (2 515 mm)	106.5 inch (2 705 mm)	93 inch (2 362 mm)
96 inch	96 inch (2 438 mm)	105 inch (2 667 mm)	112.5 inch (2 858 mm)	99 inch (2 515 mm)
500 mm	500 mm (19.7 inch)	737 mm (29 inch)	34.8 inch (884 mm)	551 mm (21.7 inch)
650 mm	650 mm (25.6 inch)	890 mm (35 inch)	40.7 inch (1 034 mm)	701 mm (27.6 inch)
800 mm	800 mm (31.5 inch)	1 040 mm (41 inch)	46.6 inch (1 184 mm)	851 mm (33.5 inch)
800 mm	800 mm (31.5 inch)	1 090 mm (43 inch)	48.6 inch (1 234 mm)	851 mm (33.5 inch)
1 000 mm	1 000 mm (39.4 inch)	1 240 mm (48.8 inch)	56.3 inch (1 430 mm)	1 052 mm (41.4 inch)

Belt size	E	A	L	F
1 200 mm	1 200 mm (47.2 inch)	1 540 mm (60.6 inch)	64.2 inch (1630 mm)	1 275 mm (50.2 inch)
1 400 mm	1 400 mm (55.1 inch)	1 650 mm (65 inch)	72.0 inch (1 830 mm)	1 476 mm (58.1 inch)
1 450 mm	1 450 mm (57.1 inch)	1 702 mm (67 inch)	74.0 inch (1 880 mm)	1 527 mm (60.1 inch)
1 600 mm	1 600 mm (63.0 inch)	1 940 mm (76.4 inch)	79.9 inch (2 030 mm)	1 676 mm (66 inch)
1 800 mm	1 800 mm (70.7 inch)	80.3 inch (2 040 mm)	87.8 inch (2 230 mm)	73.8 inch (1 875 mm)
2 000 mm	2 000 mm (78.7 inch)	88.2 inch (2 240 mm)	95.7 inch (2 430 mm)	81.7 inch (2 075 mm)
2 200 mm	2 200 mm (86.6 inch)	96.1 inch (2 440 mm)	103.5 inch (2 630 mm)	89.6 inch (2 275 mm)
2 400 mm	2 400 mm (94.5 inch)	103.9 inch (2 640 mm)	111.9 inch (2 830 mm)	97.4 inch (2 475 mm)
2 500 mm	2 500 mm (94.2 inch)	107.9 inch (2 740 mm)	115.4 inch (2 930 mm)	101.4 inch (2 575 mm)

Dimensional drawings



OUR GLOBAL PRESENCE

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- A light gray world map is visible in the background of the list, showing the global presence of the company.
- 📍 RBK International Gulf LLC Dubai, United Arab Emirates
 - 📍 RBK International (SG) Pte Ltd – Singapore
 - 📍 PT RBK International Indonesia – Indonesia
 - 📍 RBK International (UK) Ltd – United Kingdom
 - 📍 RBK Industries Limited – India
 - 📍 RBK International (Canada) Ltd – Canada
 - 📍 RBK International (Australia) Pty Ltd – Australia
 - 📍 RBK International Benin SARL – Benin
 - 📍 RBK International Netherlands B.V. – Netherlands

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