

## Overview



Milltronics MSI 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.



Milltronics MMI 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

### Milltronics MSI belt scale

- Outstanding accuracy and repeatability
- Unique parallelogram style load cell design
- Fast reaction to product loading; capable of monitoring fast moving belts
- Rugged construction
- SABS approval (South Africa), OIML, MID, and Measurement Canada

### Milltronics MMI belt scale

- 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
- NTEP, OIML, MID, and Measurement Canada approved

## Application

### Milltronics MSI belt scale

Milltronics MSI 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 MSI is suitable for monitoring such diverse products as sand, flour, coal, or sugar.

The MSI'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 Milltronics BW500, SIWAREX WT241, WP241, or FTC microprocessor-based integrators, the MSI 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 MSI is installed in a simple drop-in operation and may be secured with just four bolts. An existing idler is then attached to the MSI dynamic beam. With no moving parts, maintenance is kept to a minimum, with just periodic calibration checks required.

### Milltronics MMI belt scale

Milltronics MMI belt scale consists of two or more MSI 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 MMI system is proven in a wide range of tough applications from extraction to power generation, iron and steel, food processing and chemicals. The MMI is suitable for monitoring such diverse products as fertilizer, sand, grain, flour, coal, or sugar.

The MMI'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 Milltronics BW500 integrator (for custody transfer applications), the MMI 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 MMI 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.

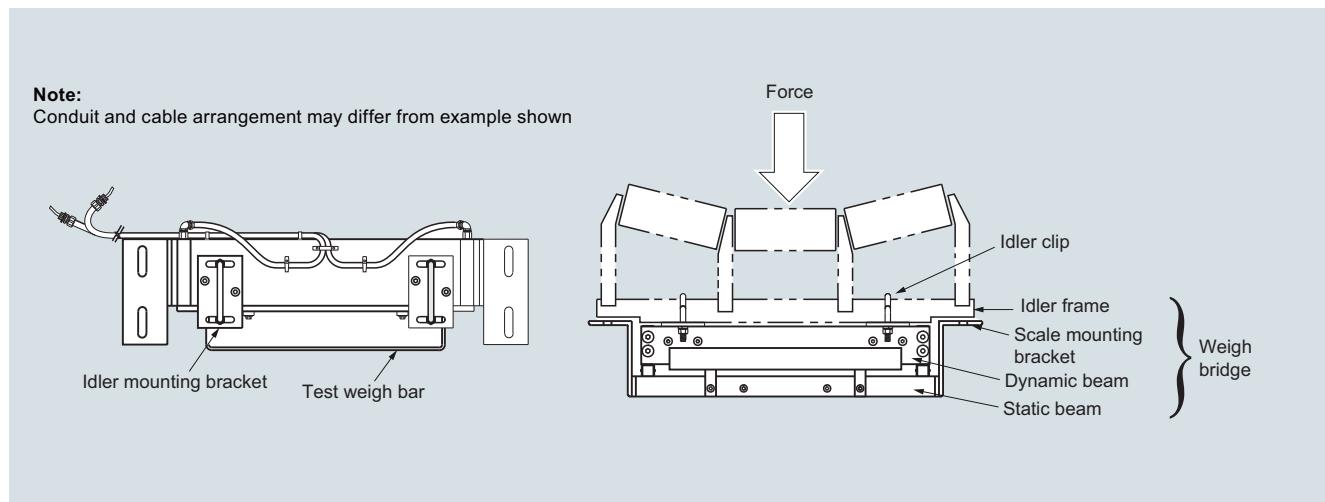
## Belt Weighing

Belt scales

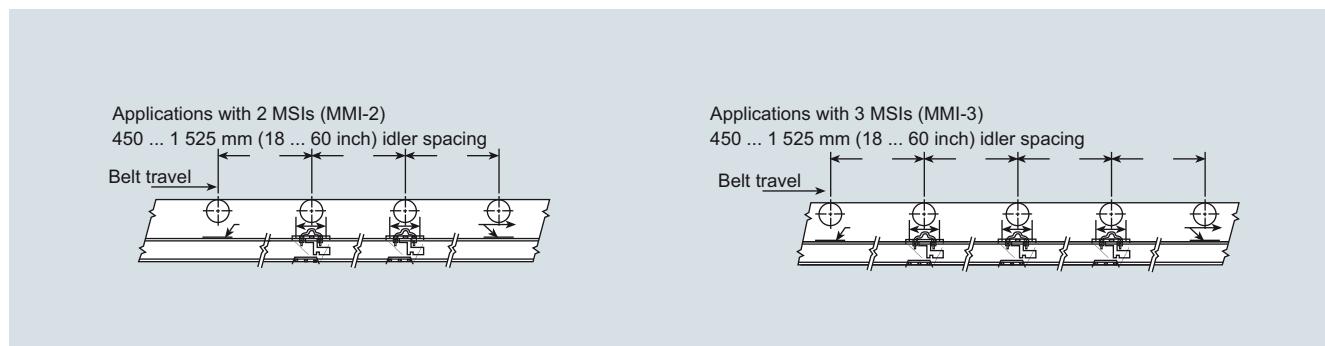
**Milltronics MSI and MMI**

### Design

#### Mounting



MSI/MMI mounting



Mounting (two or more MSI units)

## Technical specifications

<b>Milltronics MSI/MMI</b>		<b>Milltronics MSI/MMI</b>
<b>Mode of operation</b>		<b>Load cell</b>
Measuring principle	Strain gauge load cells measuring load on belt conveyor idler(s)	Construction
Typical application		Degree of protection
• MSI	Control in fractionated stone blending tunnels	IP67, IP65 on hazardous approved models
• MMI	Custody transfer	Cable length
<b>Measurement accuracy</b>		3 m (10 ft)
Accuracy <sup>1)</sup>		Note: to calculate installation cable length subtract 3 048 mm (120 inch) from the "A" dimension
• MSI	± 0.5 % or better of totalization over 20 ... 100 % operating range	Excitation
• MMI-2 (2 idler)	± 0.25 % or better of totalization over 20 ... 100 % operating range	Output
• MMI-3 (3 idler)	± 0.125 % or better of totalization over 25 ... 100 % operating range	Non-linearity and hysteresis
<b>Note: available with system specification option D only</b>		Non-repeatability
Repeatability	± 0.1 %	Capacity
<b>Medium conditions</b>		• Maximum ranges
Material temperature	-50 ... +200 °C (-58 ... +392 °F)	25, 50, 100, 250, 500, 750, 1 000, 1 250, 1 500, 2 000 lb
<b>Belt design</b>		Overload
Belt width	• 18 ... 96 inch in CEMA sizes • Equivalent to 500 ... 2 000 mm in metric size • Refer to dimensions section	150 % of rated capacity, ultimate 300 % of rated capacity
Belt speed	Up to 5 m/s (1 000 fpm) <sup>2)</sup>	Temperature
<b>Capacity</b>	Up to 12 000 t/h (13 200 STPH) at maximum belt speed. Please contact a Siemens representative for higher rates. <sup>2)</sup>	• -50 ... +75 °C (-58 ... +167 °F) operating range, optional -50 ... +175 °C (-58 ... 347 °F) • -40 ... +65 °C (-40 ... +150 °F) compensated • -10 ... +40 °C (14 ... 104 °F) compensated on trade approved versions
<b>Conveyor incline</b>	• ± 20° from horizontal, fixed incline • Up to ± 30° with reduced accuracy <sup>3)</sup>	<b>Weight</b>
<b>Idlers</b>		See dimensions section
Idler profile	• Flat to 35° • Up to 45° with reduced accuracy <sup>3)</sup>	<b>Interconnection wiring (to integrator, per MSI)</b>
Idler diameter	50 ... 180 mm (2 ... 7 inch)	< 150 m (500 ft) 18 AWG (0.75 mm <sup>2</sup> ) 6 conductor shielded cable
Idler spacing	0.5 ... 1.5 m (1.5 ... 5.0 ft)	> 150 m ... 300 m (500 ft ... 1 000 ft) 18 ... 22 AWG (0.75 ... 0.34 mm <sup>2</sup> ), 8 conductor shielded cable
<b>Approvals</b>		<b>Approvals</b>
		<ul style="list-style-type: none"> <li>• CSA/FM Class II, Div. 1, Groups A, B, C, D, Class II, Div. 1, Groups E, F, G, Class III;</li> <li>• ATEX I M1 Ex ia I Ma, ATEX II 1 GD Ex ia IIC T4 Ga, ATEX II 1 GD Ex ia IIIC T135°C Da, ATEX II 2 D Ex tb IIIC T90°C Db; ATEX II 2D Ex tb A21 IP65 T90 °C</li> <li>• UKEX I M1 Ex ia I Ma, UKEX II 1 GD Ex ia IIC T4 Ga, UKEX II 1 GD Ex ia IIIC T135°C Da, UKEX II 2 D Ex tb IIIC T90°C Db;</li> <li>• IECEx Ex ia I Ma, IECEx Ex ia IIC T4 Ga, IECEx Ex ia IIIC T135°C Da, IECEx Ex tb IIIC T90°C Db;</li> <li>• EAC Ex Ex tb A21 IP65 T90°C X;</li> <li>• KCs Ex tb A21 IP65 T90°C;</li> <li>• MSHA;</li> <li>• CE, UKCA, RCM, EAC, KC, CMC, RTN</li> </ul>
<b>Metrology approvals</b>		Measurement Canada, MID, OIML, SABS <sup>4)</sup> , NTEP <sup>5)</sup> , STAMEQ, GOST

<sup>1)</sup> 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.

<sup>2)</sup> Contact Siemens ([http://www.automation.siemens.com/aspa\\_app](http://www.automation.siemens.com/aspa_app)) for consideration of higher values.

<sup>3)</sup> Review by Siemens required ([http://www.automation.siemens.com/aspa\\_app](http://www.automation.siemens.com/aspa_app)).

<sup>4)</sup> MSI only.

<sup>5)</sup> MMI only.

# Belt Weighing

## Belt scales

### Milltronics MSI and MMI

Selection and ordering data	Article No.	Article No.
<b>Milltronics MSI Belt scale</b> Accuracy is $\pm 0.5\%$ or better of totalization over 20 ... 100 % operating range with capacity up to 12 000 t/h (13 200 STPH).	7MH7122-	7MH7122-
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		
<b>Scale construction</b>  Ordinary Locations/General Purpose (Non-Ex), CE, UKCA, RCM, EAC, KC  CSA/FM Class II, Div. 1, Groups E, F, G, Class III; ATEX II 2 D Ex tb IIC T90°C Db; UKEX II 2 D Ex tb IIC T90°C Db; IECEx Ex tb IIC T90°C Db; EAC Ex Ex tD A21 IP65 T90°C X; KCs Ex tD A21 IP65 T90°C; CE, UKCA, RCM  CSA/FM Class I, Div. 1, Groups A, B, C, D, Class II, Div. 1, Groups E, F, G, Class III; ATEX II 1 GD Ex ia IIC T4 Ga, ATEX II 1 GD Ex ia IIC T135°C Da; UKEX II 1 GD Ex ia IIC T4 Ga, UKEX II 1 GD Ex ia IIC T135°C Da; IECEx Ex ia IIC T4 Ga, IECEx Ex ia IIC T135°C Da;  ATEX I M1, ATEX II 1 GD Ex ia I Ma; UKEX I M1, UKEX II 1 GD Ex ia I Ma; IECEx Ex ia I Ma; MSHA	1 2 3 4	B L B M B N B P B Q B R B S B T B U B V B W C A C B C C C D C E C F C G C H C J C K C L C M C N C P C Q C R C S C T C U C V C W D A D B D C D D D E D F D G D H D J D K D L D M D N D P D Q D R
<b>Belt width and 'A' dimension</b>  18 inch, 'A' = 27 inch (686 mm) 19 inch, 'A' = 28 inch (711 mm) 20 inch, 'A' = 29 inch (737 mm) 21 inch, 'A' = 30 inch (762 mm) 22 inch, 'A' = 31 inch (787 mm) 23 inch, 'A' = 32 inch (813 mm) 24 inch, 'A' = 33 inch (838 mm) 25 inch, 'A' = 34 inch (864 mm) 26 inch, 'A' = 35 inch (889 mm) 27 inch, 'A' = 36 inch (914 mm) 28 inch, 'A' = 37 inch (940 mm) 29 inch, 'A' = 38 inch (965 mm) 30 inch, 'A' = 39 inch (991 mm) 31 inch, 'A' = 40 inch (1 016 mm) 32 inch, 'A' = 41 inch (1 041 mm) 33 inch, 'A' = 42 inch (1 067 mm) 34 inch, 'A' = 43 inch (1 092 mm) 35 inch, 'A' = 44 inch (1 118 mm) 36 inch, 'A' = 45 inch (1 143 mm) 37 inch, 'A' = 46 inch (1 168 mm) 38 inch, 'A' = 47 inch (1 194 mm) 39 inch, 'A' = 48 inch (1 219 mm) 40 inch, 'A' = 49 inch (1 245 mm) 41 inch, 'A' = 50 inch (1 270 mm) 42 inch, 'A' = 51 inch (1 295 mm) 43 inch, 'A' = 52 inch (1 321 mm) 44 inch, 'A' = 53 inch (1 346 mm) 45 inch, 'A' = 54 inch (1 372 mm) 46 inch, 'A' = 55 inch (1 397 mm) 47 inch, 'A' = 56 inch (1 422 mm) 48 inch, 'A' = 57 inch (1 448 mm)	A A A B A C A D A E A F A G A H A J A K A L A M A N A P A Q A R A S A T A U A V A W B A B B B C B D B E B F B G B H B J B K	

Selection and ordering data	Article No.	Article No.
<b>Milltronics MSI Belt scale</b> Accuracy is $\pm 0.5\%$ or better of totalization over 20 ... 100 % operating range with capacity up to 12 000 t/h (13 200 STPH).	7MH7122- 	<b>Milltronics MSI Belt scale</b> Accuracy is $\pm 0.5\%$ or better of totalization over 20 ... 100 % operating range with capacity up to 12 000 t/h (13 200 STPH).
<b>Load cell capacity</b>		<u>Galvanized, for belt width scales:</u> (compatible with MWL or flat bar weight system)
Not specified <sup>1)</sup>	0	L 1 A
25 lb (11.3 kg)	9	18 ... 29 inch (457.2 ... 736.6 mm)
50 lb (22.7 kg)	1	30 ... 41 inch (762 ... 1 041.4 mm)
100 lb (45.4 kg)	2	42 ... 53 inch (1 066.8 ... 1 346.2 mm)
250 lb (113.4 kg)	3	54 ... 65 inch (1 371.6 ... 1 651 mm)
500 lb (226.8 kg)	4	66 ... 77 inch (1 676.4 ... 1 955.8 mm)
750 lb (340.2 kg)	5	78 ... 89 inch (1 981.2 ... 2 260.6 mm)
1 000 lb (453.6 kg)	6	90 ... 96 inch (2 786 ... 2 438.4 mm)
1 250 lb (567 kg) <sup>2)</sup>	7	
1 500 lb (680.4 kg) <sup>2)</sup>	8	
2 000 lb (907.2 kg)	9	
<b>Fabrication</b>	L 1 B	
C5-M rated polyester painted mild steel	1 1	<b>System specification</b>
<u>Electro-galvanized mild steel:</u>		Standard MSI and MMI
18 ... 29 inch (457.2 ... 736.6 mm)	1 2	NTEP Certified MMI <sup>3)4)5)</sup>
30 ... 41 inch (762 ... 1 041.4 mm)	1 3	OIML/MID Certified <sup>4)5)</sup>
42 ... 53 inch (1 066.8 ... 1 346.2 mm)	1 4	MSI for MMI-3 $\pm 0.125\%$ accuracy <sup>6)</sup>
54 ... 65 inch (1 371.6 ... 1 651 mm)	1 5	
66 ... 77 inch (1 676.4 ... 1 955.8 mm)	1 6	
78 ... 89 inch (1 981.2 ... 2 260.6 mm)	1 7	
90 ... 96 inch (2 786 ... 2 438.4 mm)	1 8	
<u>Stainless steel 304 (1.4301), bead blast finish (1 ... 6 µm, 40 ... 240 µin) for belt width scales:</u>		<b>Further designs</b>
18 ... 29 inch (457.2 ... 736.6 mm)	2 1	Please add "-Z" to article no. and specify order code(s).
30 ... 41 inch (762 ... 1 041.4 mm)	2 2	Stainless steel tag [69 x 38 mm (2.7 x 1.5 inch)], Measuring-point number / identification (max 27 characters), specify in plain text.
42 ... 53 inch (1 066.8 ... 1 346.2 mm)	2 3	Application Eng. reference number (max. 15 characters), specify in plain text.
54 ... 65 inch (1 371.6 ... 1 651 mm)	2 4	Manufacturer's test certificate: According to EN 10204-2.2
66 ... 77 inch (1 676.4 ... 1 955.8 mm)	2 5	Factory test certificate
78 ... 89 inch (1 981.2 ... 2 260.6 mm)	2 6	OIML/MID approval additional nameplate (submit application data with order) <sup>5)</sup>
90 ... 96 inch (2 786 ... 2 438.4 mm)	2 7	NTEP approval additional nameplate (submit application data with order) <sup>5)</sup>
<u>Stainless steel 316 (1.4401), bead blast finish (1 ... 6 µm, 40 ... 240 µin) for belt width scales:</u>		Extended cable length (For spare part pricing and part number consult factory)
18 ... 29 inch (457.2 ... 736.6 mm)	3 1	Load cell with 15 m (49.2 ft) cable length [standard is 3 m (9.8 ft)]
30 ... 41 inch (762 ... 1 041.4 mm)	3 2	High temp load cell (For spare part pricing and part number consult factory)
42 ... 53 inch (1 066.8 ... 1 346.2 mm)	3 3	Load cell suitable for high temp up to 175 °C (347 °F) [standard is 75 °C (167 °F)] <sup>7)</sup>
54 ... 65 inch (1 371.6 ... 1 651 mm)	3 4	Load cell with 316 (1.4401) cover (For spare part pricing and part number consult factory)
66 ... 77 inch (1 676.4 ... 1 955.8 mm)	3 5	Load cell cover is constructed from 316 (1.4401) -stainless steel [standard is 304 (1.4301)]
78 ... 89 inch (1 981.2 ... 2 260.6 mm)	3 6	FDA compliant version
90 ... 96 inch (2 786 ... 2 438.4 mm)	3 7	Conduit and fittings designed for food applications -conforming to FDA/USDA standards
C5-M rated polyester painted mild steel (compatible with MWL or flat bar weight calibration system)	4 1	
		<b>Operating instructions</b>
		All literature is available to download for free, in a range of languages, at <a href="http://www.siemens.com/weighing/documentation">http://www.siemens.com/weighing/documentation</a>
		Article No.

# Belt Weighing

Belt scales

## Milltronics MSI and MMI

Selection and ordering data	Article No.	Article No.
<u>Spare parts</u>		
Flat bar/MWL retrofit kit	<b>7MH7723-1FW</b>	<b>PBD-25851-A8H53</b>
Conduit replacement kit	<b>7MH7723-1NA</b>	<b>PBD-25851-A0H53</b>
FDA conduit replacement kit	<b>7MH7723-1QL</b>	<b>PBD-25851-A1H53</b>
MWL calibration weight support brackets -galvanized	<b>7MH7723-1JT</b>	<b>PBD-25851-A2H53</b>
Ground cable	<b>7MH3701-1AA1</b>	
<u>Stainless steel load cells</u>		
<u>Standard load cell with 304 (1.4301) stainless steel cover</u>		
25 lb (11.3 kg)	<b>A5E35801457</b>	<b>PBD-25851-A7H53</b>
50 lb (22.7 kg)	<b>PBD-23900246</b>	<b>PBD-25851-A9H53</b>
100 lb (45.4 kg)	<b>PBD-23900247</b>	<b>PBD-25851-B1H53</b>
250 lb (113.4 kg)	<b>PBD-23900248</b>	<b>PBD-25851-B2H53</b>
500 lb (226.8 kg)	<b>PBD-23900249</b>	<b>PBD-25851-B3H53</b>
750 lb (340.2 kg)	<b>PBD-23900250</b>	<b>PBD-25851-B4H53</b>
1 000 lb (453.6 kg)	<b>PBD-23900251</b>	<b>PBD-25851-B5H53</b>
1 250 lb (567 kg)	<b>A5E02235671</b>	
1 500 lb (680.4 kg)	<b>A5E02239623</b>	
2 000 lb (907.2 kg)	<b>A5E35801460</b>	
100 lb (45.4 kg), NTEP, OIML/MID	<b>PBD-23900261</b>	<b>PBD-25851-A1T50</b>
250 lb (113.4 kg), NTEP, OIML/MID	<b>PBD-23900262</b>	<b>PBD-25851-A2T50</b>
500 lb (226.8 kg), NTEP, OIML/MID	<b>PBD-23900263</b>	<b>PBD-25851-A3T50</b>
750 lb (340.2 kg), NTEP, OIML/MID	<b>PBD-23900264</b>	<b>PBD-25851-A4T50</b>
1 000 lb (453.6 kg), NTEP, OIML/MID	<b>PBD-23900265</b>	<b>PBD-25851-A5T50</b>
<u>Standard load cell with 304 (1.4301) stainless steel cover, includes mounting hardware</u>		
50 lb (22.7 kg)	<b>7MH7725-1AC</b>	<b>PBD-25851-A8TH</b>
100 lb (45.4 kg)	<b>7MH7725-1AD</b>	<b>PBD-25851-A0TH</b>
250 lb (113.4 kg)	<b>7MH7725-1AE</b>	<b>PBD-25851-A1TH</b>
500 lb (226.8 kg)	<b>7MH7725-1AF</b>	<b>PBD-25851-A2TH</b>
750 lb (340.2 kg)	<b>7MH7725-1AG</b>	<b>PBD-25851-A3TH</b>
1 000 lb (453.6 kg)	<b>7MH7725-1AH</b>	<b>PBD-25851-A4TH</b>
1 250 lb (567 kg)	<b>7MH7725-1EA</b>	<b>PBD-25851-A5TH</b>
1 500 lb (680.4 kg)	<b>7MH7725-1EB</b>	<b>PBD-25851-A6TH</b>
100 lb (45.4 kg), NTEP, OIML/MID	<b>7MH7725-1DB</b>	<b>PBD-25851-A7TH</b>
250 lb (113.4 kg), NTEP, OIML/MID	<b>7MH7725-1DC</b>	<b>PBD-25851-A9TH</b>
500 lb (226.8 kg), NTEP, OIML/MID	<b>7MH7725-1DD</b>	
750 lb (340.2 kg), NTEP, OIML/MID	<b>7MH7725-1DE</b>	
1 000 lb (453.6 kg), NTEP, OIML/MID	<b>7MH7725-1DF</b>	
50 lb (22.7 kg), CSA/FM/ATEX/IECEx	<b>7MH7725-1DT</b>	<b>PBD-25851-A8A08</b>
100 lb (45.4 kg), CSA/FM/ATEX/IECEx	<b>7MH7725-1DU</b>	<b>PBD-25851-A0A08</b>
250 lb (113.4 kg), CSA/FM/ATEX/IECEx	<b>7MH7725-1DV</b>	<b>PBD-25851-A1A08</b>
500 lb (226.8 kg), CSA/FM/ATEX/IECEx	<b>7MH7725-1DW</b>	<b>PBD-25851-A2A08</b>
750 lb (340.2 kg), CSA/FM/ATEX/IECEx	<b>7MH7725-1DX</b>	<b>PBD-25851-A3A08</b>
1 000 lb (453.6 kg), CSA/FM/ATEX/IECEx	<b>7MH7725-1DY</b>	<b>PBD-25851-A4A08</b>
1 250 lb (567 kg), CSA/FM/ATEX/IECEx	<b>7MH7725-1EE</b>	<b>PBD-25851-A5A08</b>
1 500 lb (680.4 kg), CSA/FM/ATEX/IECEx	<b>7MH7725-1EF</b>	<b>PBD-25851-A6A08</b>
		<b>PBD-25851-A7A08</b>
		<b>PBD-25851-A9A08</b>

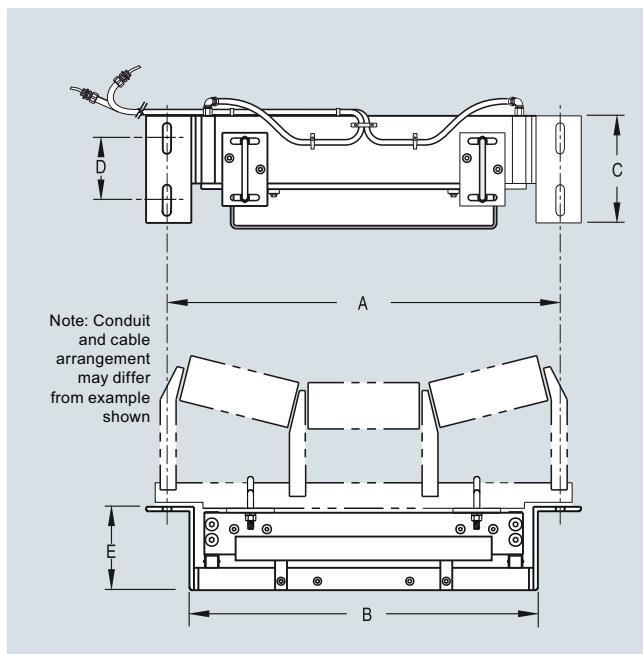
Selection and ordering data	Article No.	Article No.
100 lb (45.4 kg), NTEP, OIML/MID	<b>PBD-25851-B1A08</b>	
250 lb (113.4 kg), NTEP, OIML/MID	<b>PBD-25851-B2A08</b>	<b>7MH7723-1BT</b>
500 lb (226.8 kg), NTEP, OIML/MID	<b>PBD-25851-B3A08</b>	<b>7MH7723-1DF</b>
750 lb (340.2 kg), NTEP, OIML/MID	<b>PBD-25851-B4A08</b>	
1 000 lb (45.4 kg), NTEP, OIML/MID	<b>PBD-25851-B5A08</b>	
<u>Load cell with 15 m (49.2 ft) cable length and 316 (1.4401) stainless steel cover</u>		
25 lb (11.3 kg)	<b>PBD-25851-A8AH</b>	
50 lb (22.7 kg)	<b>PBD-25851-A0AH</b>	
100 lb (45.4 kg)	<b>PBD-25851-A1AH</b>	
250 lb (113.4 kg)	<b>PBD-25851-A2AH</b>	
500 lb (226.8 kg)	<b>PBD-25851-A3AH</b>	
750 lb (340.2 kg)	<b>PBD-25851-A4AH</b>	
1 000 lb (453.6 kg)	<b>PBD-25851-A5AH</b>	<b>A5E39271483</b>
1 250 lb (567 kg)	<b>PBD-25851-A6AH</b>	<b>A5E39271487</b>
1 500 lb (680.4 kg)	<b>PBD-25851-A7AH</b>	<b>A5E39271485</b>
2 000 lb (907.2 kg)	<b>PBD-25851-A9AH</b>	<b>A5E39271489</b>
100 lb (45.4 kg), NTEP, OIML/MID	<b>PBD-25851-B1AH</b>	
250 lb (113.4 kg), NTEP, OIML/MID	<b>PBD-25851-B2AH</b>	
500 lb (226.8 kg), NTEP, OIML/MID	<b>PBD-25851-B3AH</b>	
750 lb (340.2 kg), NTEP, OIML/MID	<b>PBD-25851-B4AH</b>	
1 000 lb (453.6 kg), NTEP, OIML/MID	<b>PBD-25851-B5AH</b>	
<u>Load cell, high temperature up to 175 °C (347 °F) with 15 m (49.2 ft) cable length</u>		
25 lb (11.3 kg)	<b>PBD-25851-A8TA</b>	
50 lb (22.7 kg)	<b>PBD-25851-A0TA</b>	
100 lb (45.4 kg)	<b>PBD-25851-A1TA</b>	
250 lb (113.4 kg)	<b>PBD-25851-A2TA</b>	
500 lb (226.8 kg)	<b>PBD-25851-A3TA</b>	
750 lb (340.2 kg)	<b>PBD-25851-A4TA</b>	
1 000 lb (453.6 kg)	<b>PBD-25851-A5TA</b>	
1 250 lb (567 kg)	<b>PBD-25851-A6TA</b>	
1 500 lb (680.4 kg)	<b>PBD-25851-A7TA</b>	
2 000 lb (907.2 kg)	<b>PBD-25851-A9TA</b>	
<u>Load cell, high temperature up to 175 °C (347 °F) with 15 m (49.2 ft) cable length and 316 (1.4401) stainless steel cover</u>		
25 lb (11.3 kg)	<b>PBD-25851-A8AHT</b>	
50 lb (22.7 kg)	<b>PBD-25851-A0AHT</b>	
100 lb (45.4 kg)	<b>PBD-25851-A1AHT</b>	
250 lb (113.4 kg)	<b>PBD-25851-A2AHT</b>	
500 lb (226.8 kg)	<b>PBD-25851-A3AHT</b>	
750 lb (340.2 kg)	<b>PBD-25851-A4AHT</b>	
1 000 lb (453.6 kg)	<b>PBD-25851-A5AHT</b>	
1 250 lb (567 kg)	<b>PBD-25851-A6AHT</b>	
1 500 lb (680.4 kg)	<b>PBD-25851-A7AHT</b>	
2 000 lb (907.2 kg)	<b>PBD-25851-A9AHT</b>	

# Belt Weighing

## Belt scales

### Milltronics MSI and MMI

#### Dimensional drawings



MSI dimensions

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)

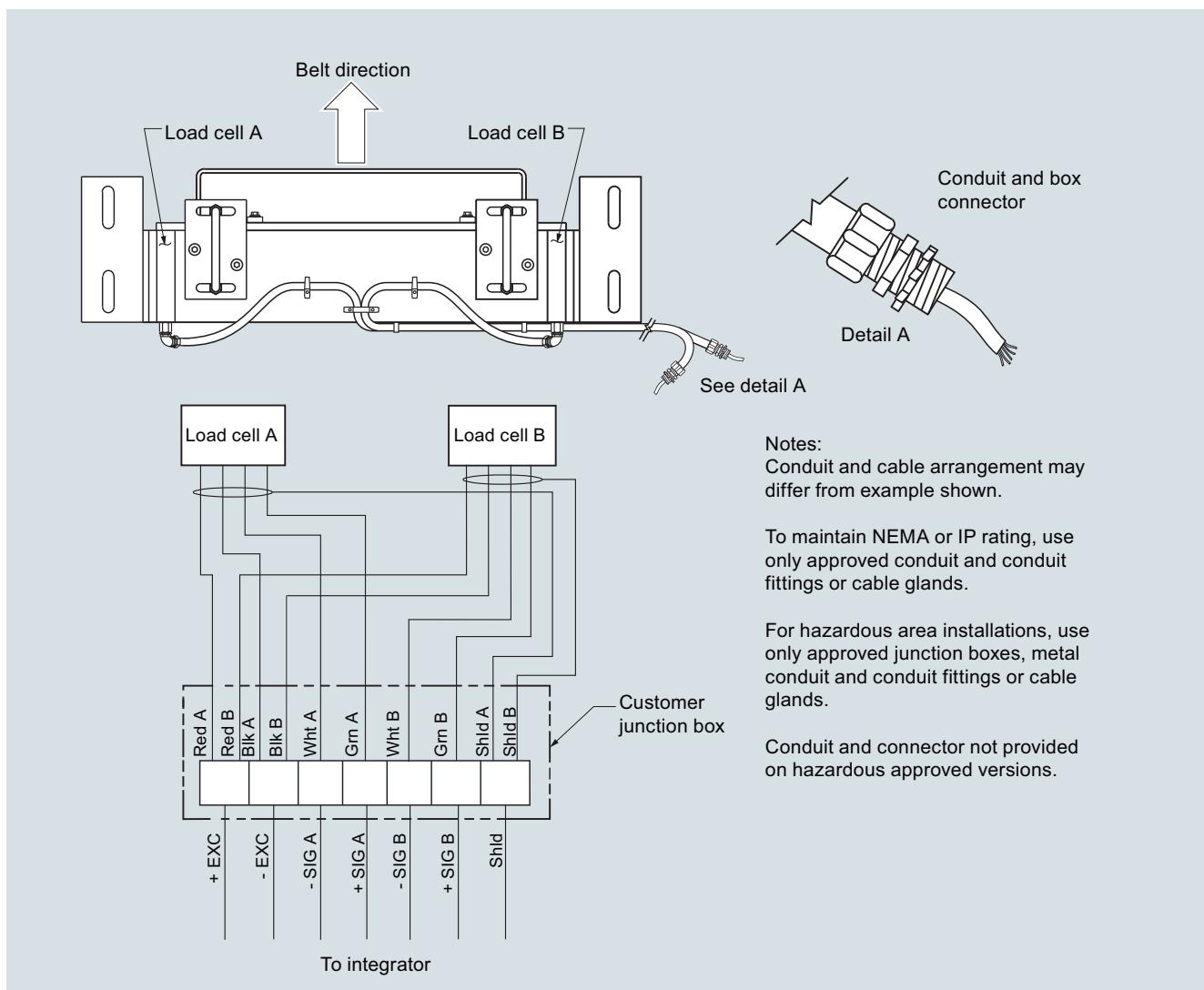
Other widths available - check configuration information.

Sizes are from 18 inch (457 mm) to 96 inch (2 438 mm) in 1 inch (25.4 mm) increments.

All sizes are nominal.

Note: dimension B must be approx. 3/8 inch or 10 mm less than Y dimension of the conveyor  
(see Application Questionnaire at <http://www.siemens.com/weighing/application-questionnaires>).

## Circuit diagrams



MSI/MMI connections

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## More information

### NTEP/Measurement Canada/OIML & MID Specification Data

Please complete and submit the relevant details Value listed below when ordering NTEP, Measurement Canada, or OIML & MID approval options

#### NTEP

Maximum rated capacity (TPH)  
Minimum rated capacity (TPH)  
Belt speed (FPM)  
Scale division (tons)  
Maximum loading (lb/ft)

#### Measurement Canada

Rate  
Speed (min/max m/s, FPM)  
Test load (kg/m, lb/ft)

Please complete and submit the relevant details Value listed below when ordering NTEP, Measurement Canada, or OIML & MID approval options

#### OIML & MID

Totalization scale interval (tonnes)  
Belt speed max/min (m/s)  
Maximum flow rate (MTPH)  
Minimum flow rate (MTPH)  
Minimum totalized load (tonnes)  
Product to be weighed  
Maximum capacity (tonnes)  
Weigh length (m)  
Ratio between minimum net load and maximum capacity  
Zero testing should have a duration of at least (\_\_\_\_) revolutions