

## Overview



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

## Benefits

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

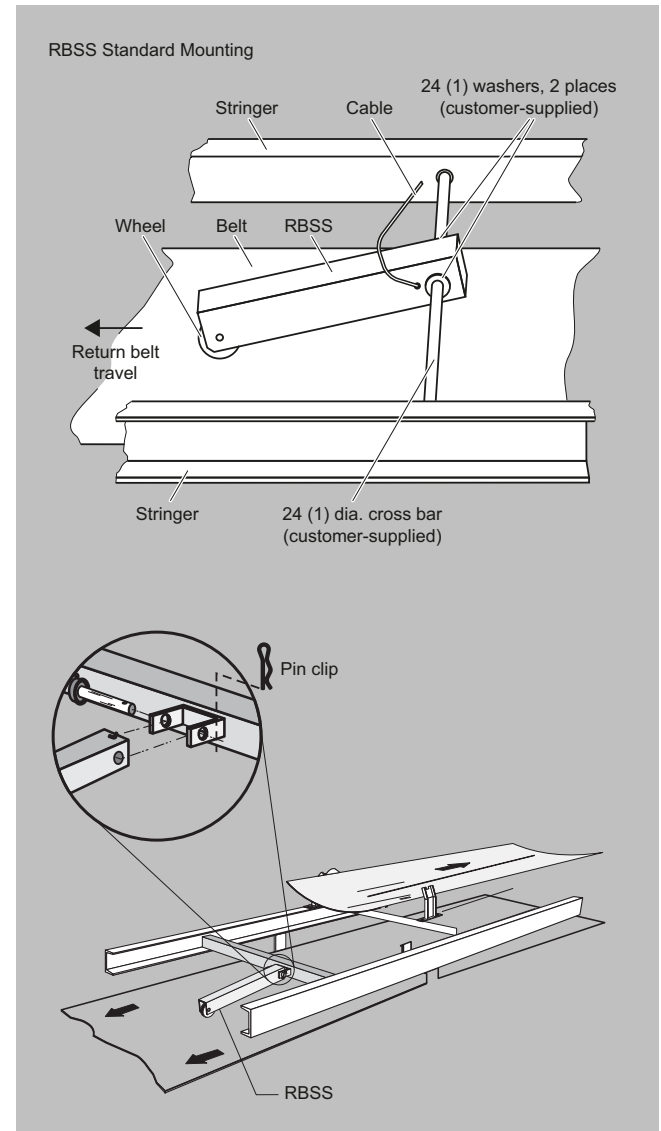
## Application

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

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.

## Design



RBSS installation, dimensions in mm (inch)

# Belt Weighing

## Speed sensors

### Milltronics RBSS

#### Selection and ordering data

		Article No.					
<b>Milltronics RBSS Speed sensor</b>		7MH7134-	●	●	●	●	0
<b>Return belt mounted, 2 ... 450 rpm, with 150.4 pulses/m (4.58 pulses/ft).</b>							
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.							
<b>Model</b>							
60 pulses per revolution		2					
<b>Fabrication</b>							
Standard, C5-M rated polyester painted mild steel			A				
<b>Mounting options</b>							
With mounting kit				B			
<b>Approvals</b>							
CE, UKCA, RCM, EAC, KC						3	

Selection and ordering data	Order Code
<b>Further designs</b>	
Please add "-Z" to article no. and specify order code(s).	
Stainless steel tag [69 x 38 mm (2.7 x 1.5 inch)]. Measuring-point number/identification (max 27 characters), specify in plain text.	Y15
Manufacturer's test certificate: According to EN 10204-2.2	C11
Operating instructions	
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>	
<b>Spare parts</b>	<b>Article No.</b>
Wheel, 127 diapolypurethane, sealed bearing	7MH7723-1FX
Magnetic proximity switch	7MH7723-1GA
Wheel and shaft, 152 mm dia. <sup>2)</sup>	7MH7723-1EN
60 tooth gear <sup>2)</sup>	7MH7723-1EQ
Bearing (two required) <sup>2)</sup>	7MH7723-1ER
<b>Accessories</b>	
Conduit kit	7MH7723-1NA

<sup>2)</sup> For use with old style RBSS PBD-51033452.

#### Technical specifications

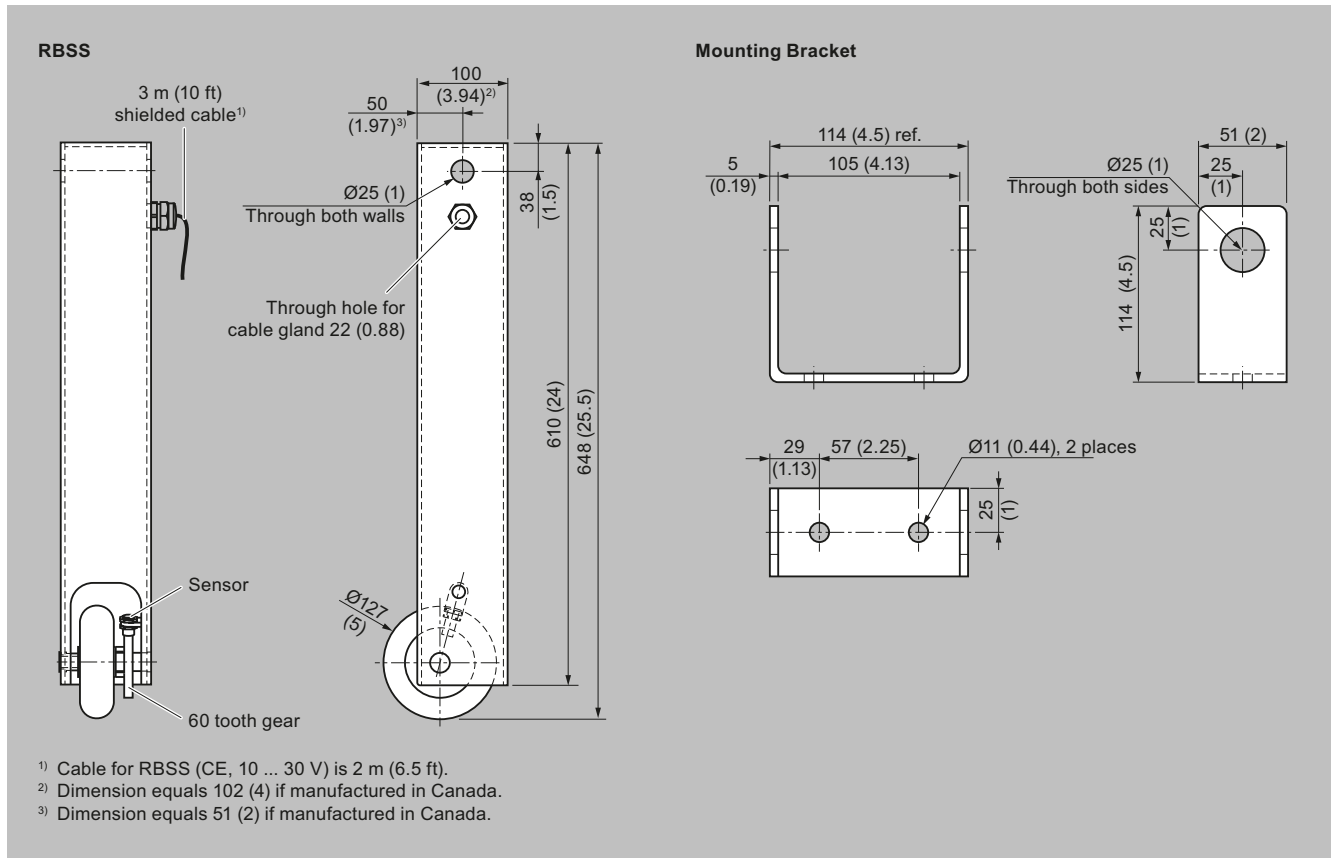
Milltronics RBSS	
<b>Mode of operation</b>	
Measuring principle	Magnetic proximity sensor provides pulse to integrator
Typical application	Aggregate belt conveyors
<b>Input</b>	Wheel rotation 2 ... 450 rpm, bi-directional
<b>Output</b>	<ul style="list-style-type: none"> <li>60 pulses per revolution,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

#### Technical specifications (Continued)

Milltronics RBSS	
<b>Approvals</b>	
RBSS	CE, UKCA, RCM, EAC, KC <sup>1)</sup>

<sup>1)</sup> EMC performance available upon request.

## Dimensional drawings



RBSS, dimensions in mm (inch)