

## Belt Weighing

### Speed sensors

#### Milltronics TASS

##### Overview



Milltronics 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

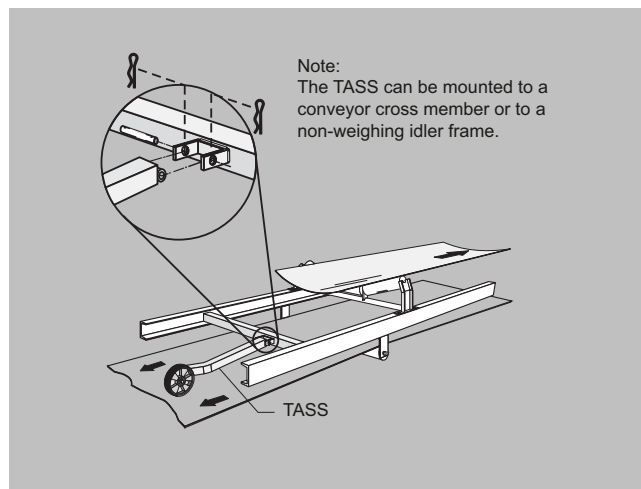
##### Application

Milltronics TASS speed sensor operates in conjunction with a conveyor belt scale, providing signals to an integrator (Milltronics 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 Milltronics belt scale integrator.

##### Design



TASS Installation

##### Selection and ordering data

		Article No.				
<b>Milltronics TASS Speed sensor</b> Return belt mounted, 25 ... 350 rpm, with 9.947 pulses/m (3.03 pulses/ft).		7	M	H	7	131-0
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.						
<b>Model</b>	5 pulses per revolution	1				
<b>Fabrication</b>	Standard, C5-M rated polyester painted mild steel			A		
	Stainless steel 304 (1.4301), bead blast finish (1 ... 6 µm, 40 ... 240 µin)			B		
	Note: wheel is aluminum for all versions					
<b>Mounting options</b>	Complete with standard mounting kit				A	
<b>Approvals</b>	Ordinary Locations/General Purpose (Non-Ex), CE, UKCA, RCM, EAC, KC					1

## Selection and ordering data (Continued)

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.	<b>Y15</b>
Manufacturer's test certificate: According to EN 10204-2.2	<b>C11</b>
<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>	
<b>Spare parts</b>	<b>Article No.</b>
TASS wheel	7MH7723-1AN
TASS proximity switch	7MH7723-1AP
TASS wheel, stainless steel sealed bearing	7MH7723-1GW
Conduit replacement kit	7MH7723-1NA

## Technical specifications

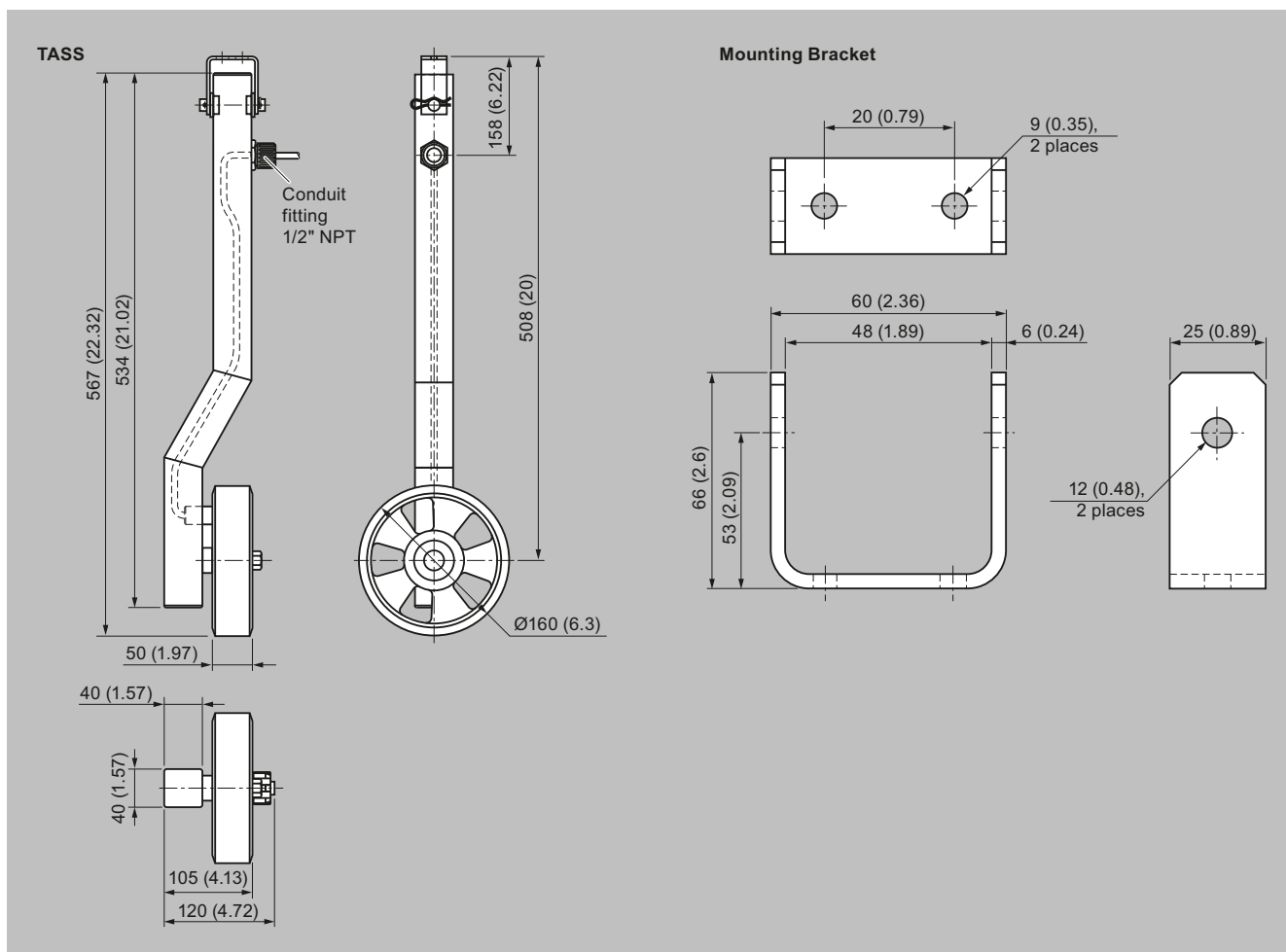
Milltronics TASS	
<b>Mode of operation</b>	
Measuring principle	Inductive proximity sensor provides pulse to integrator
Typical application	Mobile crusher
<b>Input</b>	<ul style="list-style-type: none"> <li>• Bi-directional wheel rotation</li> <li>• 25 ... 350 rpm</li> </ul>
<b>Output</b>	<ul style="list-style-type: none"> <li>• Inductive proximity sensor</li> <li>• Open collector, NPN, sinking output, max. 200 mA</li> <li>• Pulses: 5 per revolution</li> <li>• 9.947 pulses/m, 3.03 pulses/ft</li> </ul>
<b>Rated operating conditions</b>	
Operating temperature	-25 ... +70 °C (-13 ... +158 °F)
Max. belt speed	3 m/s (590 fpm)
Degree of protection	IP67
<b>Design</b>	
Trailing arm assembly	Painted mild steel
Wheel	160 mm (6.3 inch) diameter cast aluminum with polyurethane tread
<b>Power supply</b>	10 ... 35 V DC, 15 mA at 24 V DC maximum
<b>Wiring</b>	
Brown	+ Excitation (10 ... 35 V DC)
Black	+ Signal
Blue	- Common
<b>Interconnection wiring (to integrator)</b>	<ul style="list-style-type: none"> <li>• 5 m, 3 conductor shielded PVC cable, 3 x 0.25 mm<sup>2</sup> (23 AWG), protected with 1 000 mm of flexible conduit</li> <li>• 300 m (1 000 ft) maximum cable run</li> </ul>
<b>Approvals</b>	CE, UKCA, RCM, EAC, KC

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#### Dimensional drawings



TASS, dimensions in mm (inch)