


Instrument Data Sheet

General	1	Product	Belt Speed Detector with 2-Wire Inductive Sensor (Included)	
	2	Model Number	BSD-2S	
	3	Manufacturer	Conveyor Components Company	
	4			
Environment	5	Ambient Temperature	-25 to 80 °C [32 to 176 °F]	
	6	Material: Frame	Powder coated steel with zinc plated hardware	
	7	Material: Wheel	Glass Filled Nylon	
	8	Sensor Enclosure Rating	IP 67 (dust tight, water tight)	
	9	Mounting	2 × $\varnothing^{13/32}$ " [10 mm] holes (mounting hardware included)	
	10			
	11			
Electrical	12	Sensor Type	12mm [$\frac{1}{2}$ "] non-contact inductive probe	
	13	Output Type	PNP/NPN 2-wire pulse rate speed encoder	
	14	Operating Voltage	10-55 VDC	
	15	Current Rating	400 mA	
	16	Indicating Lamp	LED on sensor body	
	17	Controller	Compatible with RMS Series controllers, or other user supplied controllers (PLC, DCS, direct output, etc.)	
	18	Pulse Rate Scaling Factor	1 Hz =	0.3490 fps
	19			20.944 fpm
	20			0.2380 mph
	21			0.1064 m/s
	22			0.3830 km/h
	23		1 fps =	2.865 Hz
	24		1 fpm =	0.0477 Hz
	25		1 mph =	4.202 Hz
	26		1 m/s =	9.399 Hz
27	1 km/h =		2.611 Hz	
28				
Mechanical	29	Wheel Diameter	\varnothing 8" [203mm]	
	30	Sensor Target	6 per wheel	
	31	Max Belt Speed	20 mph, 1760 fpm [32.2 km/hr, 8.94m/s]	
	32	Safety Restraint	Safety Cable (included standard): Two 2' [0.6 m] lengths of vinyl coated aircraft cable. (replacement part	
	33		Safety Chain Kit (optional): Two 4' [1.2 m] lengths of safety chain, with attachment hardware (part# 21310016)	
Options	34			
	35			
Accessories	36			
	37			
Certifications	38			
	39			
Manufacturer	40		Conveyor Components Company Division of Material Control, Inc. 130 Seltzer Road, PO Box 167 Croswell, MI 48422 USA (810) 679-4211 info@conveyorcomponents.com www.conveyorcomponents.com	

Notes: For RMS-1G/RMS-2G/RMS-3G controllers, see datasheets: DATA-0164/DATA-0170/DATA-0171.

