

Instrument Data Sheet

General	1	Product	Compact Belt Speed Detector with 3-Wire Inductive Sensor	
	2	Model Number	BSDC-3S	
	3	Manufacturer	Conveyor Components Company	
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Environment	5	Ambient Temperature	-20 to 70 °C [-4 to 158 °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, watertight)	
	9	Mounting	2 × Ø ¹³ / ₃₂ " [10 mm] holes (mounting hardware included)	
	10			
Electrical	11			
	12	Sensor Type	12mm [½"] non-contact inductive probe	
	13	Output Type	NPN 3-wire pulse rate speed encoder	
	14	Operating Voltage	10-30 VDC	
	15	Operating Current	≤200 mA	
	16	Indicating Lamp	LED on sensor body	
	17	Controller	Compatible with MSD-800 Series controllers, or other user supplied controllers (PLC, DCS, direct output, etc.)	
	18	Pulse Rate Scaling Factor	1 Hz =	0.175 ft/s
	19		10.472 ft/min	
	20		0.119 mph	
	21		0.0532 m/s	
	22		0.192 km/h	
	23		1 fps =	5.730 Hz
	24		1 fpm =	0.0955 Hz
	25		1 mph =	8.403 Hz
26	1 m/s =		18.798 Hz	
27	1 km/h =		5.222 Hz	
28				
Mechanical	29	Wheel Diameter	Ø 4" [102 mm]	
	30	Sensor Target	6 per wheel	
	31	Max Belt Speed	10 mph, 880 fpm [16.1 km/hr, 4.47 m/s]	
	32	Safety Restraint	Safety Cable (included standard): Two 15" [0.4 m] lengths of vinyl coated aircraft cable. (part# 21310016)	
	33		Safety Chain Kit (optional): Two 4' [1.2 m] lengths of safety chain, with attachment hardware (part# 21310111)	
Options	34			
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Accessories	36			
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Certifications	38			
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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 MSD-800 series controllers, see datasheets: DATA-0176, DATA-0177				