


General	1	Product	Dual Set Point Motion Control (Explosion Proof)
	2	Model Number	MSD-1X
	3	Manufacturer	Conveyor Components Company
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Environment	5	Ambient Temperature	-10 to 55 °C [14 to 131 °F]
	6	Enclosure Material	319 Cast Aluminum
	7	Enclosure Rating	NEMA Type 7: Class I Groups C and D, and Type 9: Class II Groups F and G compliant
	8	Mounting	Surface mount, sensor shaft should be mounted in line or parallel to the driving shaft. Mounting brackets are available
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Electrical	11	Sensor Type	Infrared tracked rotating disc
	12	Input Power	12V DC from control unit
	13	Output Signal	12V DC NPN square wave
	14	Electrical Connection	¼" NPT x 2
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Mechanical	17	Shaft Connection	Direct drive, chain drive, or gear drive
	18	Maximum Shaft Load	125 lbs. radial, 100 lbs. end thrust
	19	Rotation Direction	Clockwise or Counterclockwise
	20	Maximum Speed Limit	1000 RPM
	21	Drive Torque	1 inch-pound
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Options	24		
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Accessories	26	Stub Shaft	Stub shaft (303): adaptor for coupling; 5/8"- 11 N.C. right hand thread with a jam nut on one end, 3/16" keyhole on the other
	27	Shaft Extension	Flexible Coupling (304) for connecting MSD-1X to the driving shaft
	28	Coupling Guard	Coupling Guard (305) protective cover for the coupling assembly
	29	Mounting Brackets	Mounting bracket (310) for mounting to a perpendicular surface
	30		Bearing bracket (311) for 1 7/16" shaft diameter
	31		Bearing bracket for 1 15/16" to 2 7/16" shaft diameter
	32		Bearing bracket for 2 15/16" to 3 7/16" shaft diameter
	33	Additional Cable	2 conductor shielded cable (MSD-14) Belden 8760 or equivalent
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Certifications	37		
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Manufacturer	40		Conveyor Components Company Division of Material Control, Inc.
Notes: 1. Switch shaft should be mounted in line or parallel to the driving shaft 2. Sensor can be driven by flexible coupling, belt drive, chain drive, or gear drive. 3. The recommended signal point is 15-20% above or below running speed. This will reduce nuisance shutdowns and improve response time. An excessively low trigger setting may result in an increased delay in switch response.			