


Instrument Data Sheet

General	1	Product	Compact Motion Switch (Explosion Proof)
	2	Model Number	CMS-3X
	3	Manufacturer	Conveyor Components Company
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Environment	5	Ambient Temperature	-10 to 55°C [14 to 131 °F]
	6	Max. Operating Temp.	Class T6: 85°C [185°F]
	7	Enclosure Material	319 cast aluminum
	8	Enclosure Rating	NEMA Type 7: Class I (Div. 1 & 2), Groups C & D; Type 9: Class II (Div. 1 & 2), Groups F & G
	9	Mounting	Surface mount, switch shaft should be mounted in line or parallel to the driving shaft
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Switch	11	Switch Type	DPDT relay
	12	Contact Type	Dry contact
	13	Contact Rating	5A @ 120V or 240V AC; 5A @ 30V DC; $\frac{1}{10}$ hp @ 120V or 240V AC
	14	Electrical Action	Non-latching
	15	Electrical Connection	$\frac{3}{4}$ " NPT x 2
	16	Electrical input rating	24V AC/DC
	17	Indicating Lamp	None
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Actuator	20	Type	Rate control switch
	21	Mechanism	Infrared tracked rotating disc
	22	Inactivated State	Shaft rotating under/over trigger rate (field adjustable)
	23	Activated State	Shaft rotating over/under trigger rate (field adjustable)
	24	Trigger Rate Range	Field adjustable .1 to 1000 RPM
	25	Action	Non-latching
	26		
Options	27	Finish	Uncoated (standard) or epoxy coating (option E)
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Accessories	29	Stub Shaft	Stub shaft (303): adaptor for coupling; $\frac{5}{8}$ " - 11 N.C. right hand thread with a jam nut on one end, $\frac{3}{16}$ " key slot on the other
	30	Shaft Extension	Flexible Coupling (304): for connecting CMS to the driving shaft
	31	Coupling Guard	Coupling Guard (305): protective cover for the coupling assembly
	32	Brackets	Mounting bracket (310) for mounting to a perpendicular surface
	33		Bearing bracket (311) for 1 $\frac{7}{16}$ " shaft diameter
	34		Bearing bracket (312) for 1 $\frac{15}{16}$ " to 2 $\frac{7}{16}$ " shaft diameter
	35		Bearing bracket (313) for 2 $\frac{15}{16}$ " to 3 $\frac{7}{16}$ " shaft diameter
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Certifications	37		
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Manufacturer	40		Conveyor Components Company Division of Material Control, Inc. 130 Seltzer Road, PO Box 167 Croswell, MI 48422 USA Phone: (810) 679-4211 Fax: (810) 679-4510 info@conveyorcomponents.com www.conveyorcomponents.com
Notes: 1. Switch shaft should be mounted in line or parallel to the driving shaft 2. Can be driven by flexible coupling, vbelt drive, chain drive, or gear drive. 3. The recommended signal point is 15-20% 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.			