Instrument Data Sheet

General	1	Product	Compact Motion Switch (Explosion Proof) with Pulse Output
	2	Model Number	CMS-1X-DSPO
	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	Number of Set Points	2
	12	Switch Type	DPDT relay X 2 (1 per set point)
	13	Contact Type	Dry contact
	14	Relay Contact Rating	3A resistive @ 120V or 240V AC; 3A @ 30V DC; $^{1}/_{10}$ hp @ 120V or 240V AC
	15	Electrical Action	Non-latching
	16	Pulse Encoder Type	12V DC (3 wire)
	17	Pulse Resolution	12 PPR standard (50 PPR for optional low speed encoder disk)
	18	Electrical Connection	¾" NPT x 2
	19	Electrical input rating	120V AC (240V AC available on request)
	20	Indicating Lamp	Internal indicators only
Actuator	21	Type	Rate control switch
	22	Mechanism	Infrared tracked rotating disc
	23	Inactivated State	Shaft rotating under/over trigger rate (field adjustable)
	24	Activated State	Shaft rotating over/under trigger rate (field adjustable)
	25	Trigger Rate Range	Field adjustable 0 to 1000 RPM
	26	Action	Non-latching
Options	27	Finish	Uncoated (standard) or epoxy coating (option E)
	28	Pulse Rate:	12 PPR (standard)
	29		50 PPR (optional low-speed encoder disk)
Accessories	30	Stub Shaft	Stub shaft (303): adaptor for coupling; $^{5}/_{8}$"- 11 N.C. right hand thread with a jam nut on one end, $^{3}/_{16}$" key slot on the other
	31	Shaft Extension	Flexible Coupling (304): for connecting CMS to the driving shaft
	32	Coupling Guard	Coupling Guard (305): protective cover for the coupling assembly
	33	Brackets	Mounting bracket (310) for mounting to a perpendicular surface
	34		Bearing bracket (311) for 1 $^{7}/_{16}$" shaft diameter
	35		Bearing bracket (312) for 1 $^{15}/_{16}$" to 2 $^{7}/_{16}$" shaft diameter
	36		Bearing bracket (313) for 2 $^{15}/_{16}$" to 3 $^{7}/_{16}$" shaft diameter
Certifications	37	UL Certification File	WYMV.E185222
	38	cUL Certification File	WYMV7.E185222
	39		
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, belt 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.
4. applications below 5 RPM require a the low-speed encoder disk