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|--|----|---|---|
| General  | 1  | Product   | Dual Set Point Motion Control   |
|  | 2  | Model Number  | MSD-1   |
|  | 3  | Manufacturer  | Conveyor Components Company   |
|  | 4  |   |   |
| Environment  | 5  | Ambient Temperature   | -10 to 55 °C [14 to 131 °F]   |
|  | 6  | Enclosure Material  | 319 Cast Aluminum   |
|  | 7  | Enclosure Rating  | NEMA Type 3S, 4, 4X compliant   |
|  | 8  | Mounting  | Surface mount, sensor shaft should be mounted in line or parallel to the driving shaft  |
|  | 9  |   |   |
| Electrical   | 10 |   |   |
|  | 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   | ¾" NPT x 1s   |
|  | 15 |   |   |
| Mechanical   | 16 |   |   |
|  | 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  |
|  | 22 |   |   |
| Options  | 23 |   |   |
|  | 24 | Sensor Enclosure  | NEMA Type 7 and 9 compliant sensor (option X)   |
| Accessories  | 25 |   |   |
|  | 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-1 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   |
|  | 34 |   |   |
| 35   |    |   |   |
| 36   |    |   |   |
| Certifications   | 37 |   |   |
|  | 38 |   |   |
|  | 39 |   |   |
| Manufacturer   | 40 |  | Conveyor Components Company<br>Division of Material Control, Inc.   |
| Notes: 1. Switch shaft should be mounted in line or parallel to the driving shaft<br>2. Sensor can be driven by flexible coupling, belt drive, chain drive, or gear drive.<br>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. |    |   |   |