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Jameco Part Number 1983635



Features

- Incremental encoder / quadrature output
- Exceptionally long operating life
- Sturdy construction
- Bushing mount
- Available with PC board mounting bracket (optional)

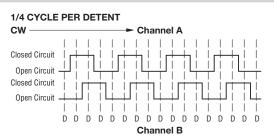
ECW - Digital Contacting Encoder

Electrical Characteristics

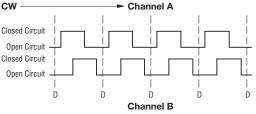
Closed Circuit Resistance Open Circuit Resistance Contact Rating Insulation Resistance (500 VDC Dielectric Withstanding Voltage Sea Level Electrical Travel Contact Bounce (15 RPM) RPM (Operating)	
Environmental Character	istics
Storage Temperature Range Humidity Vibration Contact Bounce Shock Contact Bounce Rotational Life	-40 °C to +85 °C (-40 °F to 185 °F) 40 °C to +85 °C (-40 °F to +185 °F) 40 °C to +85 °C (-40 °F to +185 °F) 40 °C to +85 °C (-40 °F to +185 °F)
Mechanical Characterist	ics
Running Torque (Detented) Undetented Torque Mounting Torque Shaft Side Load (Static) Weight Terminals	

Marking

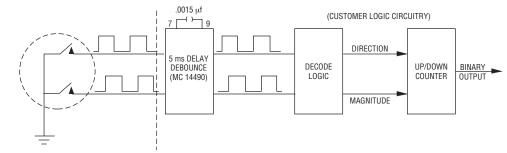
Quadrature Output Table — This table is intended to show available outputs as currently defined.



FULL CYCLE PER DETENT (Normally Open in Detent Shown)



RECOMMENDED INCREMENTAL CONTROL DIAGRAM FOR USE WITH A DEBOUNCE CIRCUIT



*RoHS Directive 2002/95/EC Jan 27 2003 including Annex Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

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BOURNS®

Dimensional Drawings BUSHING MOUNTED - HOUSING A PANEL HOLE DIMENSIONS "L" ± 0.38 **Rear-Facing Terminals Bushing Mounted** ("L" ± .015) W style bushing shown. <u>22.2 ± 0.25</u> (.874 ± .010) 8.51 9.52 (.335)(.375)t 9.52 11.1 .375 . 27.68 ± 0.25 (.437) $(1.090 \pm .010)$ 3.17 (.125) 14.7 ± 0.5 $\frac{3.0}{(.354)}$ DIA. DIA. 28.49 ± 0.25 (1.122 ± .010) DIA (.578 ± .020) ACE M9 X 0.75-6g SPL ŧ 1.52 6.35 ± 0.25 1 † ŧ (.060) CHANNEL A - CHANNEL B (.250 ± .010) соммом PCB BRACKET MOUNTED - HOUSING B PCB MOUNTING DIMENSIONS SOLDER HOLES - HOUSING C (Housing Styles B and E) Dimensions not given are the same as Bushing Mounted. Dimensions not given are the same as Bushing Mounted. 5.74 9.02 23.37 ± 0.25 (.226) (.355) (.920 ± .010) 11.4 26.975 (.450) 15.2 - (1.062) <u>2.54</u> <u>(.100)</u>TYP. .762 (.600) 14.478 17.069 (.030) hm 23.6 П t (.570)(.672) 4 PLCS (.930) , 1.2 (.047) DIA. 7 PLCS 2.54 ۲. 1.57 (.100) .107 ACB DIA (.062)(.042) $\frac{6.35 \pm 0.25}{(.250 \pm .010)}$ JŦŁ CHANNEL A - CHANNEL B 5.08 3 PLCS соммом (.200)SNAP-IN MOUNT - Housing G PCB MOUNTING DIMENSIONS <u>"L" ± 0.38</u> ("L" ± .015) <u>8.51</u> $\frac{13.08}{(.515)}$ 22.68 (893)22.20 ± 0.25 11.33 14.68 ± 5.08 (874 + 010)(.335) $\frac{1.55 \pm 5.06}{(0.578 \pm 0.20)}$ DIA. 9.53 (.446) 6.35 (.375) (.250) _⊕: 27.69 ± 0.25 21.11 $(1.090 \pm .010)$ 8 X (.038) R :(‡): (.831) 11.10 28.50 ± 0.25 (.437) 8 99 (1.122 ± .010) (354)19.76 1.52 DIA. 2.54 10.90 2 54 12.24 2 X <u>2.2</u> (.100) COMMON CHANNEL B (.778) (.060) (.429) CHANNEL A <u>5.08</u> (.200) (.100) (.482) 7.24 ± 0.25 1.07 3 X (0.042) (.285 ± .010) Shaft Style B Shaft Style C Shaft Style J Shaft Style R Shaft Style Y 4.75 ± .006/-.051 DIA $\frac{6.32 + 0.03/\!- 0.06}{(.249 + .001/\!- .003)} \text{ DIA}.$ 6.00 4.01 + .051/ - .025 (.187 + .003/-.002)5.54 ± .076 4.7 (.185) DIA (.158 + .002/ - .001) (.236) DIA. (.218 ± .003) (062)1.19 <u>6.32 + 0.03/- 0.06</u> (.249 + .001/- .003) DIA. 1.19 SLOT DEPTH ("Y" SHAFT) $\frac{9.65}{(.380)}$ For Shafts < 1 " LENGTH $\frac{14.7}{(.578)}$ FOR SHAFTS ≥ 1 " LENGTH "D "D' 1.6 (.047) 1.6 (.047) (.063) (.063) "D" DIMENSION EXTENDS FROM SHAFT END TO BUSHING FACE "D" = (SHAFT LENGTH, FMS) - (BUSHING LENGTH) BUSHING MOUNTED - HOUSING H 23.87 FOR TOLERANCES NOT SHOWNŁ Front-Facing Terminals 15.87 ±.038 $XX = \pm \frac{.25}{(.010)}$ $XXX = \pm \frac{.13}{(.005)}$ SHAFT DIMENSIONS $\pm 1/32^{\circ}$.625 ±.015) 22.2 ±.025 (.874 ±.010) 8.50 ±.025 (.335 ±.010) 9.01 ±.020 6.35 DIMENSIONS: MM .250) (.355 ±.008) 4.01 +.050/-.025 1.52 (.060)1.19 (.158 +.002/-.001) $\frac{11.09}{(.437)}$ (.047) 9.93 (.391) DIA. $\frac{14.9 \pm .050}{(.587 \pm .020)}$ DIA 3.17 (.125) DIA (.375 .635 (.025) 3 PLCS. 3/8-32 UNEF 2A 2.54 (.100) 2 PLCS 2.54 16.0 1.19 (.100) 2 PLCS 17.4 ±.025 DIA (.630) 2.79 (.047) 1.57 4 PLCS (.110) (.685 ±.010) (.062) 3.55 4.75 +.076/-.050 (.187 +.003/-.002) DIA ŧ CHANNEL A - CHANNEL B (.140)соммом

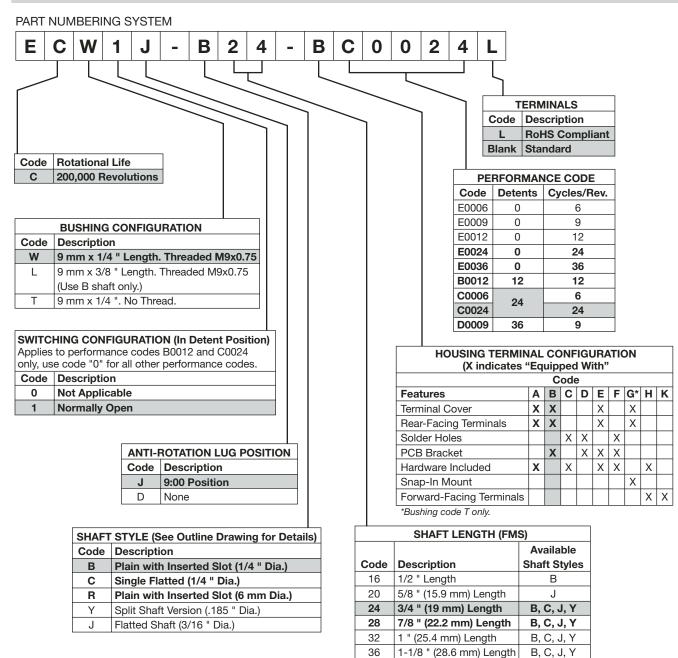
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Customers should verify actual device performance in their specific applications.

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BOURNS®

How to Order



36

19

22

24

Metric

19 mm Length

22 mm Length

24 mm Length

R

R

R

The sample part number demonstrates the identification code for Bourns contacting encoders.

Boldface features are Bourns standard options. All others are available with higher minimum order quantities.

REV. 06/06

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