
C2984 Heavy Duty Incremental Shaft Encoder Model Selection

C **2** **9** **8** **4** - **A** **A** **A** - **B** **C** **D** - **E** **F** **G** - **H** **H**

MODEL SERIES: _____

_____ **SUFFIX IDENTIFIER:**

C2984 = Incremental shaft encoder assembly, heavy duty.

AAA = ENCODER WHEEL PULSES PER REVOLUTION:

100 = 100 pulses per revolution

200 = 200 pulses per revolution

256 = 256 pulses per revolution

360 = 360 pulses per revolution

400 = 400 pulses per revolution

500 = 500 pulses per revolution

512 = 512 pulses per revolution

101 = 1000 pulses per revolution

102 = 1024 pulses per revolution

B = RATED POWER SUPPLY VOLTAGE:

0 = Plus 5 volts dc.

1 = Plus 8 to 15 volts dc.

2 = Plus 8 to 30 volts dc.

C = OUTPUT SIGNAL CONFIGURATION:

1 = Single ended TTL.

2 = Complementary TTL.

3 = Single ended OC, no pullup.

4 = Single ended OC, internal pullup.

5 = Complementary OC, no pullup.

6 = Complementary OC, internal pullup

7 = Single ended CMOS.

8 = Complementary CMOS

9 = Line driver, complementary outputs meet RS-422 specifications.

D = RATED MAXIMUM OUTPUT VOLTAGE SIGNAL:

0 = Plus 5 volts dc.

1 = Plus 15 volts dc.

2 = Plus 30 volts dc.

E = CHANNEL Z (INDEX PULSE) STATUS:

0 = No index pulse supplied.

1 = Index pulse is supplied.

F = EXTERNAL WIRE CONNECTIONS:

0 = 6 inch long wire leads.

1 = Internal terminal block, 5 position.

2 = 6 pin connector, 3102A-14S-6P.

3 = 10 pin connector, 3102A-18-1P

G = MOUNTING STYLE:

0 = Standard 5PY flange mount

1 = Foot mounting.

HH = FACTORY ASSIGNED OPTION IDENTIFIER:

00 = Standard, no options supplied.

XX = Special, factory assigned number.

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NOTES:

- 1) The plus 15 volt dc output rating, suffix, D = 1, is not available with suffix C = 1, 2 or 9.
- 2) The plus 30 volt dc output rating, suffix D = 2, is not available with suffix C = 1, 2, 7, 8 or 9.
- 3) The index pulse option, suffix E = 1, is only available with code wheels that set suffix AAA = 256, 360, 500 or 512.
- 4) Terminal block connections for the external wiring, suffix F = 1, is not available with complementary outputs, suffix C = 2, 5, 6, 8, and 9.
- 5) The 6 pin connector for external wiring, suffix F = 2, is not available with complementary outputs, suffix C = 2, 5, 6, 8, and 9.
- 6) The OC referenced in the list of output signal types denotes open collector transistors. This type outputs are arranged to sink current only and must have pullup resistors installed to provide the high level output signal.
- 7) All of the encoder models provide dual channel outputs. The outputs are arranged in quadrature. This standard configuration is capable of providing position, velocity and direction information to the connected controller. For tachometer simulation, single channel models are available. Interested user's should contact Datatran's Sales Department for details.
- 8) For applications with extremely low speed shaft rotations, the model series C2726 heavy duty, incremental shaft encoders are recommended. These encoders are geared and with the correct gear ratio selection are designed to provide a high resolution signal at low speed. They are available in both foot and flange mounting configurations. The model series C2726 encoders operate from a plus 5 volt dc power supply and have open collector outputs.

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