



## Sensing and Control

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**600-128-CBL**

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**600 Series optical encoder, 128 pulse per revolution, 2-square wave, 190,5 mm [7.5 in] cable, mounting hardware included**

Actual product  
appearance may vary.

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**Product Specifications**

|                       |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| Encoder Type          | Optical                                                                                     |
| Pulse Per Revolution  | 128 pulses/revolution                                                                       |
| Dome Switch           | No                                                                                          |
| Output                | 2-square wave, Channel A leads Channel B by 90 ° electrically in counterclockwise direction |
| Electrical Travel     | Continuous                                                                                  |
| Source Voltage Range  | 4.75 Vdc min., 5.0 Vdc nom., 5.25 V max.                                                    |
| Supply Current        | 30 mA                                                                                       |
| Output Voltage        | 2.4 Vdc min. (out high); 0.4 Vdc max. (out low)                                             |
| Pull-up Resistor      | 10 kOhms                                                                                    |
| Operating Speed       | 300 RPM max.                                                                                |
| Operating Torque      | 0,011 N m [1.5 oz in] max.                                                                  |
| Terminal              | 190,5 mm [7.5 in] long cable/lead                                                           |
| Terminal Strength     | 0,9 kg [2.0 lb]                                                                             |
| Housing Type          | Molded thermoplastic                                                                        |
| Mechanical Travel     | Continuous                                                                                  |
| Rotational Life       | 10 million shaft rotations                                                                  |
| Shaft Axial Force     | 6,8 kg [15 lb] push/pull                                                                    |
| Shaft Radial Play     | 0,254 mm [0.01 in] at 25,4 mm [1 in]                                                        |
| Shaft Material        | Stainless steel                                                                             |
| Bushing Material      | Nickel-plated brass                                                                         |
| Operating Temperature | -40 °C to 65 °C [-40 °F to 149 °F]                                                          |
| Storage Temperature   | -55 °C to 110 °C [-67 °F to 230 °F]                                                         |
| Humidity              | 85 %RH at 40 °C [104 °F] 240 hr                                                             |
| Series Name           | 600                                                                                         |
| Availability          | Global                                                                                      |
| UNSPSC Code           | 30211929                                                                                    |
| UNSPSC Commodity      | 30211929 Encoders                                                                           |

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