November, 2004

Sensors & Controls Division

BOURNS® SENSORS & CONTROLS Update

Bourns Rep District Sales Managers
Bourns Rep Distributor Managers
Corporate Distributor Product Managers
Americas Sales Team
Asia Sales Team
Europe Sales Team

Sensors & Controls New Product Release
EM14 Rotary Optical Encoder

Bourns® Sensors & Controls Division is pleased to announce the release of the EM14 Rotary Optical Encoder. The Model EM14 is a self-contained optical encoder producing a 2-bit incremental quadrature output signal, which is suitable for digital systems, where both magnitude and direction of adjustment must be provided. This encoder is ideal for use as a digital panel control in human-to-machine interface (HMI) applications where long rotational life, reliability, and space constraints are essential.

The EM14 Series Encoder utilizes similar electronics to the EN Series Encoder, providing a clean square wave output that can be used by microprocessors without A/D conversion or additional external debounce circuitry. The 1 million cycle rotational life makes this product ideal for extended service applications. The 14 mm square package is compact and well suited for applications where space is limited. Options for the EM14 include flatted or slotted shaft styles, axial or radial leads, a momentary push switch and detents.

Best of all, the EM14 is a “lead free” product in compliance with Directive 2002/95/EC on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment. To date, Bourns is first to market with a “lead free” rotary optical encoder.

For your convenience, you will find the distributor book prices, minimum order quantities and multiples in the attachment. Product brochures and samples are now available. Additional training materials and promotional items are forthcoming. Feel free to contact one of our Field Applications Engineers for additional information and technical assistance.

Chuck Manzano
Product Marketing Manager
Bourns, Sensors & Controls Division
E-mail: chuck.manzano@bourns.com