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HEDS-5540#A14

Quick Assembly Two and Three Channel Optical Encoder

All Detail

Description

Features

Documents

The HEDS-5500/5540, HEDS-5600/5640, and HEDM-5500/5600 are high performance, low cost, two and three channel optical incremental encoders. These encoders emphasize high reliability, high resolution, and easy assembly.

Each encoder contains a lensed LED source, an integrated circuit with detectors and output circuitry, and a codewheel which rotates between the emitter and detector IC. The outputs of the HEDS-5500/5600 and HEDM-5500/5600 are two square waves in quadrature. The HEDS-5540 and 5640 also have a third channel index output in addition to the two channel quadrature. This index output is a 90 electrical degree, high true index pulse which is generated once for each full rotation of the codewheel.

The HEDS series utilizes metal codewheels, while the HEDM series utilizes a film codewheel allowing for resolutions to 1024 CPR. The HEDM series is not available with a third channel index.

These encoders may be quickly and easily mounted to a motor. For larger diameter motors, the HEDM-5600, and HEDS-5600/5640 feature external mounting ears.

The quadrature signals and the index pulse are accessed through five 0.025 inch square pins located on 0.1 inch centers.

Standard resolutions between 96 and 1024 counts per revolution are presently available. Consult local Agilent Technologies sales representatives for other resolutions.



Lead (Pb) Free
RoHS 6 fully compliant

[View Data Sheet \(PDF\)](#)

Lifecycle status:
Active



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FEATURES [-]

- Two Channel Quadrature Output with Optional Index Pulse
- Quick and Easy Assembly
- No Signal Adjustment Required
- External Mounting Ears Available
- Low Cost
- Resolutions Up to 1024 Counts Per Revolution
- Small Size
- -40 degrees C to 100 degrees C Operating Temperature
- TTL Compatible
- Single 5 V Supply

DOCUMENTS [-]

Data Sheets & Technical Specifications

Data Sheet - HEDM-55xx/560x & HEDS-55xx/56xx Quick Assembly Two and Three Channel Optical Encoders (461 KB,PDF)

Application Notes

Application Note - AN 1250: Sewing Machine, Tape Drive Vending Machine Applications Encoders (45 KB,PDF)

Product Change Notices

Product Changes Notice (PCN) - PCN: A02-089-476103-OA, Jan 2003 (91 KB,PDF)
Product Changes Notice (PCN) - PCN: A03-090-476103-OA, Jan 2003 (12 KB,PDF)
Product Changes Notice (PCN) - PCN: V07-003-476103-OA, May 2007 (851 KB,PDF)
Product Changes Notice (PCN) - V10-005-476103-OA (131 KB,PDF)
Product Changes Notice (PCN) - V12-008-476103-OA (68 KB,PDF)

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