



LL Series Linear Encoder

The LL linear encoder is a miniature non-contacting high resolution incremental linear encoder, which delivers two count channels in quadrature RS422 output signals. This series is available in 1 and 5 micron resolution.

Features

- Light Source: Light Emitting Diode;
- Light Sensor: Optical ASIC
- Resolution after quadrature: 5 and 1 micron
- Output Format: Differential RS422 line driver output. Two count channels A and B in quadrature with an optional ZR output;
- Quadrature spec.: $90^\circ \pm 45^\circ$ at maximum conditions;
- Rise and Fall Time: 1 μ s max., with 1000 pF load;
- Travel length: up to 250mm (special lengths available on request)



SLE-LI Series Linear Encoder

The SLE-LI encoder is a miniature non-contacting high resolution Incremental linear encoder, which delivers two count channels in quadrature RS422 output signals. This series is available in 1, 0.5, and 0.1 micron resolution. 150mm scale length standard.

Features

- Light Source: Light Emitting Diode;
- Light Sensor: AEDR Optical Asic;
- Resolution after quadrature:
- Output Format: Differential RS422 line driver output. Two count channels A and B in quadrature with an optional ZR output;
- Quadrature spec.: $90^\circ \pm 22^\circ$ at maximum conditions;
- Rise and Fall Time: 1 μ s max. into 1000 pF load;
- Travel length: up to 264 mm.



SLE-35 Series Linear Encoder

The SLE-35, high resolution linear encoder is similar in mounting to other industry standard enclosed linear encoders. This model is a miniature non-contacting high resolution incremental linear encoder, which delivers two count channels in quadrature (called A and B) as output signals. The two output waveforms are 90 degrees out of phase and indicate both the position and the movement direction: when Channel A leads Channel B, for example, then the movement is from left to right of the scale when viewing the pattern side of the scale. Otherwise, if B leads A, then the displacement is in the opposite direction. This encoder is available in 0.1 and 0.05 micron resolution.

Features

- Light Source: Light Emitting Diode;
- Light Sensor: AEDR Optical Asic;
- Resolution after quadrature: 0.1 μ m or 0.05 μ m
- Output Format: Differential RS422 line driver output. Two count channels A and B in quadrature with an optional ZR output;
- Quadrature spec.: $90^\circ \pm 45^\circ$ at maximum conditions;
- Rise and Fall Time: 1 μ s max. into 1000 pF load;
- Travel length: up to 150 mm standard. Please contact us for information about longer lengths.



SRE-30 Series Rotary Encoder

The SRE-30 series, high resolution rotary encoder is similar in mounting to other industry standard enclosed rotary encoders. This model is a miniature non-contacting high-resolution incremental rotary encoder, which delivers two count channels in quadrature (called A and B) as output signals. The two output waveforms are 90 degrees out of phase and indicate both the position and the movement direction: when Channel A leads Channel B, for example, then the movement of the disc is clockwise. Otherwise, if B leads A, then the displacement is in the opposite direction. This encoder is available in 1000, 2000, 4000, 8000 and 16000 CPR resolution.

Features

- Light Source: Light Emitting Diode;
- Light Sensor: Optical Asic;
- Resolution: 1000, 2000, 4000, 8000 or 16000 CPR
- Output Format: Differential RS422 line driver output. Two count channels A and B in quadrature with an optional ZR output;
- Quadrature spec.: $90^\circ \pm 45^\circ$ at maximum conditions;
- Rise and Fall Time: 1 μ s max. into 1000 pF load;
- 6mm standard shaft size