

# **Encoder Line Drivers**

## Technical Data

HEDL-550x/554x HEDL-560x/564x HEDL-9000/9100 HEDL-9040/9140

#### **Features**

- Available on Both Encoder Modules (HEDS-9000 Series) and Encoder Kit Housing (HEDS-5500 Series)
- Complementary Outputs
- Industry Standard Line Driver IC
- Single 5 V Supply
- Onboard Bypass Capacitor
- 70°C and 100°C Versions Available

### **Description**

Line Drivers are available for the HEDS-55xx/56xx series and the HEDS-9000/9100/9200/9040/9140 series encoders. The line driver offers enhanced performance when the encoder is used in noisy environments, or when it is required to drive long distances.

The 70°C version utilizes an industry standard line driver IC (26LS31) which provides complementary outputs for each encoder channel. The 100°C version utilizes an industry standard line driver IC, 26C31, which provides complementary outputs for each encoder channel. Thus, the output of the line driver encoder is A,  $\overline{A}$ , B,  $\overline{B}$  and I/ $\overline{I}$  for three channel versions. Suggested line receivers are 26LS32 and 26LS33.

For additional information, please refer to:
HEDS-5500/5540/5600/5640
data sheet,
HEDS-90x0/91x0/92x0 data sheets,
HEDS-9000 series extended resolution data sheet, and
26LS31 data sheet.



**Note:** Agilent Technologies encoders are not recommended for use in safety critical applications. Eg. ABS braking systems, power steering, life support systems and critical care medical equipment. Please contact sales representative if more clarification is needed.

### **Device Characteristics**

Parameter	Characteristic	Notes
Termination	10 conductor ribbon cable with 10 position IDC Berg connector	See pinout
Electrical Outputs	Complementary outputs: A, $\overline{A}$ , B, $\overline{B}$ , I, $\overline{I}$	I and $\overline{I}$ available only on three channel encoders
Line Driver Components	26LS31 line driver IC, decoupling capacitor on PC board.	
Operating Temperature	0°C to 70°C	70°C Series
Range	0°C to 100°C	100°C Series
Storage Temperature	-40°C to 70°C	70°C Series
	-40°C to 100°C	100°C Series

ESD WARNING: NORMAL HANDLING PRECAUTIONS SHOULD BE TAKEN TO AVOID STATIC DISCHARGE.