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

Encoder Line Drivers

Encoder Line Drivers





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 encoder line driver 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, A, B, B and I/4 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 26C31 data sheet.





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

Note: Avago 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.

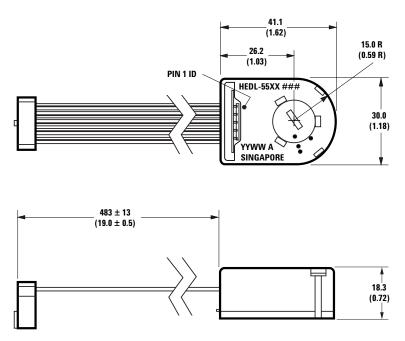
Device Characteristics

Parameter	Characteristic	Notes			
Termination	10 conductor ribbon cable with 10 position IDC Berg connector	See pinout			
Electrical Outputs	Complementary outputs: A, A, B, B, I, I	I and I available only on three channel encoders			
Line Driver Components	26C31 line driver IC, decoupling capacitor on PC board.				
Operating Temperature Range	0°C to 100° C	100° C Series			
Storage Temperature	-40°C to 100° C	100° C Series			

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

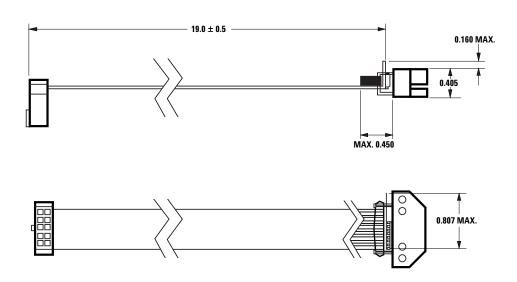
Line Driver Package Dimensions

For Detailed Dimensions on encoder packages, please refer to the respective data sheets.



HEDL-550X/554X/560X/564X/556X

NOTE: DIMENSIONS IN MILLIMETERS (INCHES)

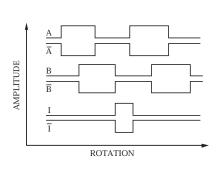


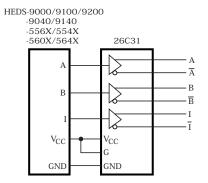
HEDL-9000/9100/9200/9040/9140

Waveforms

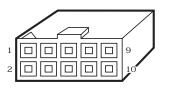
Block Diagram

Pinouts





10-PIN CONNECTOR						
NO.	COLOR	PARAMETER				
1 2 3 4 5 6 7 8 9 10	BROWN RED ORANGE YELLOW GREEN BLUE VIOLET GREY WHITE BLACK	NC V _{CC} (+ 5 V) GND NC A A B B I (INDEX) I (INDEX)				



10 POSITION IDC CONNECTOR CENTER POLARIZED.

Note: I/I only available on three channel encoders.

Line Driver Base Parts Available:

100°C Line Driver Base Part	Channels	Refer to the following encoder data sheet for additional information and option codes (XXX = resolution and/or shaft size)
HEDL-5500#XXX	A, B	HEDS-5500#XXX
HEDL-5505#XXX	A, B	HEDS-5505#XXX
HEDL-5540#XXX	A, B, I	HEDS-5540#XXX
HEDL-5600#XXX	A, B	HEDS-5600#XXX
HEDL-5605#XXX	A, B	HEDS-5605#XXX
HEDL-5640#XXX	A, B, I	HEDS-5640#XXX
HEDL-5645#XXX	A, B, I	HEDS-5645#XXX
HEDL-9000#XXX	A, B	HEDS-9000#XXX
HEDL-9040#XXX	A, B, I	HEDS-9040#XXX
HEDL-9100#XXX	A, B	HEDS-9100#XXX
HEDL-9140#XXX	A, B, I	HEDS-9140#XXX

Ordering Information:

For option code selection, refer to the data sheet for the corresponding "HEDS" part number (see right column).

		01	02	04	05	06	11	12	13	14
	Α		*			*				
	Ε					*				
HEDL-5500#	G				*			*		
	Н					*				
	I			*						
	Α					*				
HEDL-5505#	I								*	
	Α	*	*		*	*	*	*	*	*
	C		*		*			*		
HEDL-5540#	Е					*	*			
	G						*			
	ı	*				*	*		*	
HEDL-5560#	В		*				*		*	
HEDL-5561#	J					*				
HEDL-5600#	Α					*				
	Н					*				
HEDL-5605#	Α					*		-		
	C									*
HEDL-5640#	Α					*		*	*	
HEDL-5645#	Α					*			*	
	G					*				

HEDL-9000#	U00
HEDL-9040#	B00
HEDL-9100#	A00
HEDL-9140#	A00 100

