

# Incremental Optical Encoders Transmissive Housed



## HEDL-5xxx, HEDS-550x/554x, HEDS-560x/564x, HEDM-550x/560x Series

### Description

#### HEDS-550X/HEDM-550X/HEDS-560X and HEDS-554X/HEDS-564X Series

- High-performance, two and three channel incremental optical encoders
- High reliability, high resolution, easy assembly
- Contains a lensed (LED) source or emitter, an integrated circuit with detectors and output circuitry, and a codewheel which rotates between the emitter and detector IC
- HEDS-550X/HEDM-550X/HEDS-560X output is two square waves in quadrature
- HEDS-554X/HEDS-564X output has a third channel index output in addition to the two channel quadrature
- The index output is a 90 electrical degree, high true index pulse which is generated once for each full rotation of the codewheel
- Features quick and easy motor mounting

#### HEDM-55XX/56XX Series

- Features same as listed above
- Comes with film codewheels

#### HEDS-56XX and HEDM-56XX Series

- Features same as listed above
- Features mounting ears HEDL-55XX Series
- Features differential output
- Utilizes an industry-standard line driver IC (26C31), which provides complementary output for each encoder channel, offering enhanced performance when the encoders are used in a noisy environment, or when required to drive long distances
- Suggested line receivers: 26C32 and 26C33
- Quadrature signals are accessed through a cable and 10-pin female connector, manufactured by FCI, part number: 66900-310. Mating connectors are made by FCI; for straight type part number: 71912-010, right angle type part number: 71913-010

### 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 1,024 CPR
- Small size
- Up to 100°C operating temperature
- TTL compatible
- Single 5 V supply
- Count frequency of 100 KHz

### Applications

#### Ideal for high-volume applications, including:

- Printers
- Plotters
- Tape drives
- Positioning tables and automatic handlers

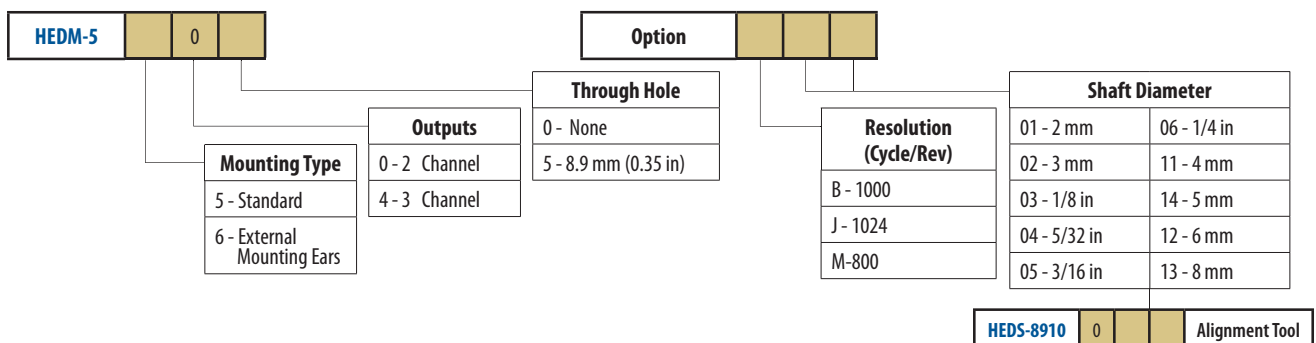
### Package Dimensions

- Refer to product datasheet for package dimensions

Note: Please contact sales/factory to confirm up to date option availability

### Ordering Information

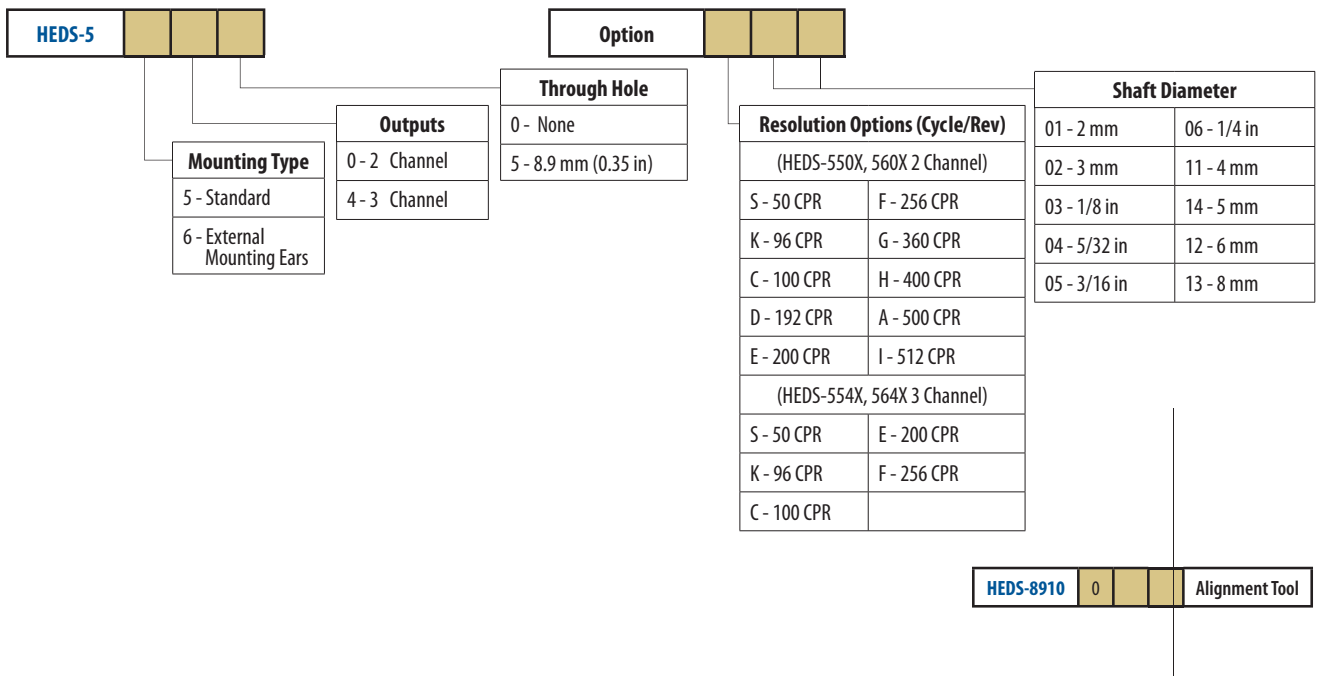
Mid-Sized Housed Encoders with Film Codewheels – HEDM-550x/560x series



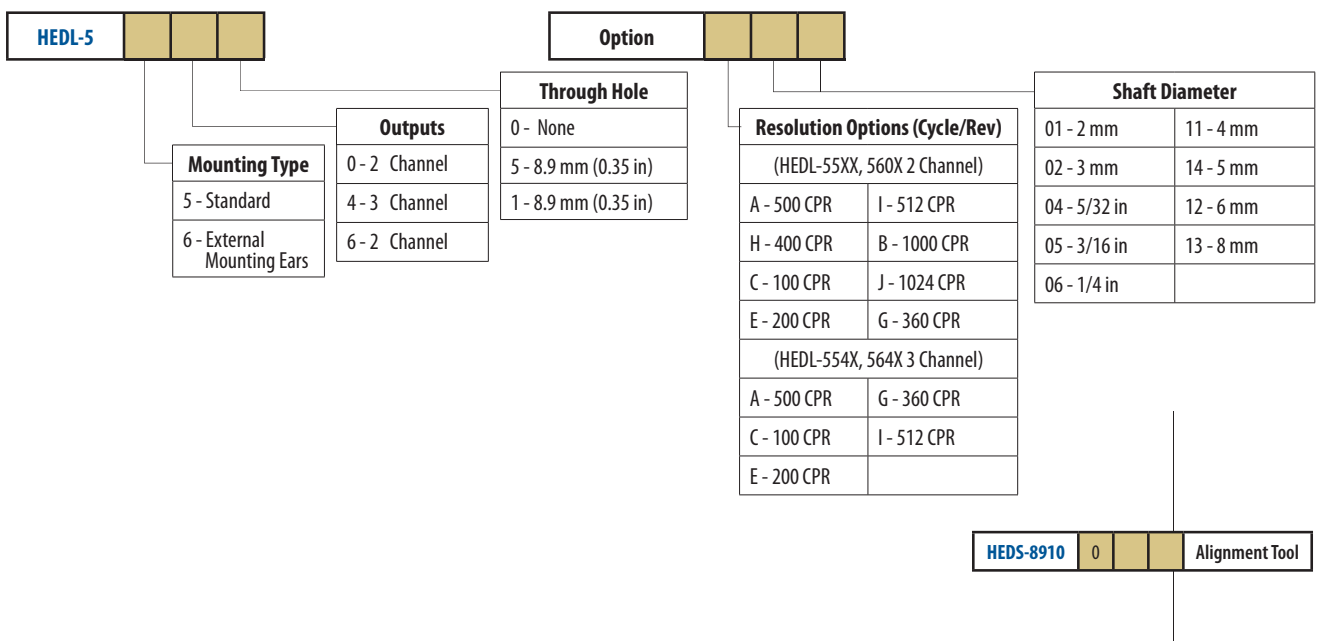
(Included with each order of HEDM-550x/560x two channel encoders and HEDM-554x three channel encoders)

## Ordering Information

### Mid-Sized Housed Encoders with Metal Codewheels – HEDS-550x/554x/564x Series



### Mid-Sized Housed Encoders with Line Drivers – HEDL-5xxx series



## Available Options

Available Options											
Part Number		Options									
		01	02	03	04	05	06	11	12	13	14
HEDL-5540	A	•	•			•	•	•	•	•	•
	C		•			•			•		
	E						•	•			
	G							•			
	I	•					•	•		•	
HEDL-5640	A						•		•	•	
HEDL-5645	A						•			•	
	G						•				
HEDL-5500	A		•				•				
	E						•				
	G					•			•		
	H						•				
	I				•						
HEDL-5505	A						•				
	I									•	
HEDL-5560	B		•					•		•	•
HEDL-5561	J						•				•
HEDL-5600	A						•				
	H						•				
HEDL-5605	A						•				
	C										•
HEDM-5500	B	•	•				•	•	•	•	•
	J		•				•		•	•	•
HEDM-5505	B				•						
	J			•			•			•	
HEDM-5540	B	•	•			•		•		•	•
HEDM-5545	B									•	
HEDM-5600	B						•			•	
	J						•				
HEDM-5605	B						•			•	
	J						•				
HEDS-5500	A	•	•	•	•	•	•	•	•		•
	C	•	•	•	•	•	•	•	•	•	•
	E		•		•	•	•	•	•		•
	F	•	•		•	•	•	•	•		•
	G		•			•	•	•	•		•
	H					•	•		•		•
	I	•	•	•	•	•	•	•	•	•	•
	K				•	•	•	•	•		
S										•	

## Available Options

Available Options											
Part Number		Options									
		01	02	03	04	05	06	11	12	13	14
HEDS-5505	A				•		•			•	•
	C				•		•		•		•
	E				•		•				•
	F				•		•				•
	G				•		•				
	H						•				•
	I				•		•			•	
HEDS-5540	A	•	•	•	•	•	•	•	•	•	•
	C	•	•				•	•	•	•	•
	E						•	•	•		
	F	•						•			•
	G						•				
	H						•				•
	I	•	•				•	•	•	•	•
HEDS-5545	A						•		•		•
	C						•		•		
	H						•				•
	I						•				
HEDS-5600	A						•		•	•	•
	C						•		•		•
	E						•				
	G						•			•	
	H						•		•		
	I	•						•			
HEDS-5605	A						•			•	
	C						•				
	E						•				
	F									•	
	G						•				
	H						•				•
	I						•				
HEDS-5640	A						•		•	•	
	E						•		•		
	F						•				
	H						•				
HEDS-5645	A						•		•	•	
	C									•	
	E									•	
	F									•	
	G									•	
	H						•		•		•
	I									•	