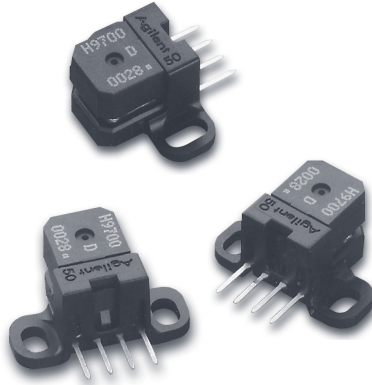


Small Optical Encoder Modules

HEDS-9700/973X series

Product Selection



Description

The HEDS-9700 series is a high performance, low cost, optical incremental encoder module whereas the HEDS-973X is a high-resolution version of the HEDS-9700 series. When operated in conjunction with either a codewheel or codestrip, this module detects rotary or linear position. The module consists of a lensed LED source and a detector IC enclosed in a small C-shaped plastic package. Due to a highly collimated light source and a unique photodetector array, the module is extremely tolerant to mounting misalignment.

The two channel digital outputs and 5V supply input are accessed through four solder-plated leads located on 2.54mm (0.1 inch) centers. The standard HEDS-9700 is designed for use with an 11mm optical radius codewheel, or linear codestrip. Other options are available.

Features

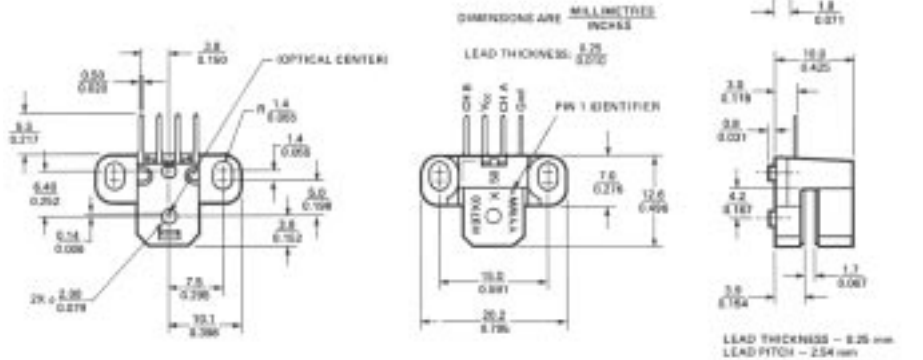
- Small Size
- Low Cost
- Multiple Mounting Options
- Wide Resolution Range
- Linear and Rotary Options Available
- No Signal Adjustment Required

- Insensitive to Radial and Axial Play
- -40°C to +85°C Operating Temperature
- Two Channel Quadrature Output
- TTL Compatible
- Single 5V Supply
- Wave Solderable

Applications

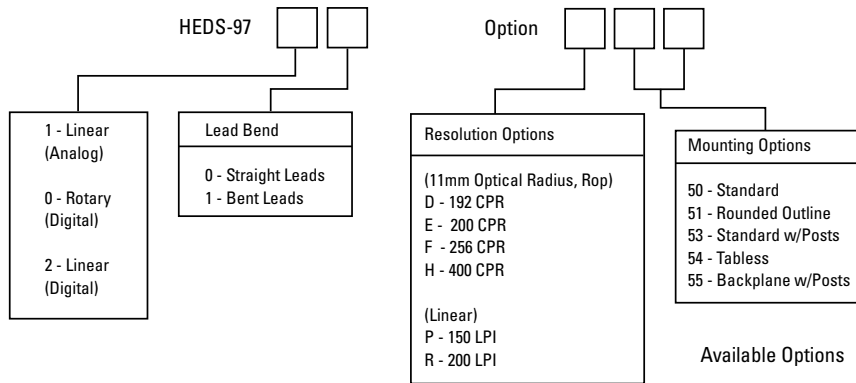
The HEDS-9700/973X provides sophisticated motion detection at a low cost, making closed-loop control very cost-competitive. Typical application include printers, plotters, copiers and office automation equipment.

Package Dimensions



Mounting Option #50 - Standard (Baseplane Mounting)

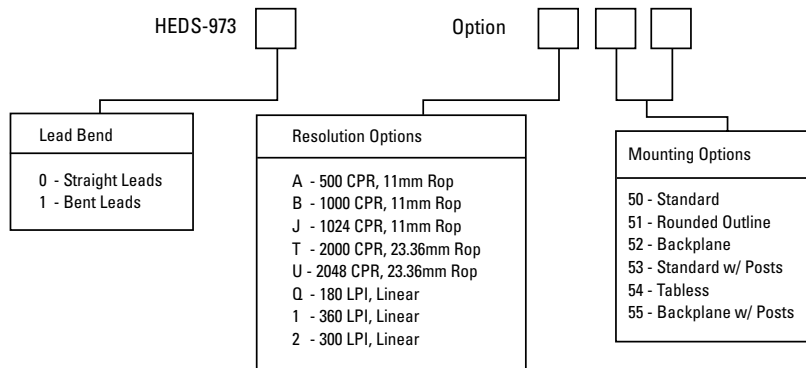
HEDS-97XX series
Small Optical Encoder Modules



Available Options

Part No.	Res	Mounting Options					
		50	51	52	53	54	55
HEDS-9700	D	•					•
	E	•					
	F	•	•	•			•
	H	•	•				•
HEDS-9701	F		•				•
	H	•					•
HEDS-9710	R	•	•				
HEDS-9711	R	•	•				
HEDS-9720	P	•	•	•			•
HEDS-9721	P	•	•		•		

HEDS-973X series
High Resolution Small Optical Encoder Modules



Available Options

Part No.		Options					
		50	51	52	53	54	55
HEDS-9730	2	•					
	A	•					•
	Q	•		•			
HEDS-9731	1	•	•	•	•	•	•
	2	•	•	•	•	•	•
	A	•					
	B	•	•	•	•	•	•
	J	•	•	•	•	•	•
	Q	•					
HEDS-9732	T	•	•	•	•	•	•
	U	•	•	•	•	•	•
HEDS-9733	U	•	•	•	•	•	•

www.semiconductor.agilent.com

Data subject to change.

Copyright © 2001 Agilent Technologies

Replaces 5988-0309EN

March 31, 2001

5988-2671EN



Agilent Technologies