



Features of the 2 in. Transmissive Rotary Encoder Disk



- 2 in. outside diameter
- Mylar film construction
- 64 to 10,000 CPR
- Index track option

Description

US Digital offers a wide variety of standard rotary encoder disks. They may be ordered as a stand-alone disk or as an encoder disk. These rotary encoder disks are made from Mylar polyester film. This material allows for a wide temperature range.



The 64 CPR is only available without an index (NE); other resolutions, 2500 CPR and below, may be ordered with or without an index, while 3600 CPR and above are only available with an index (IE).

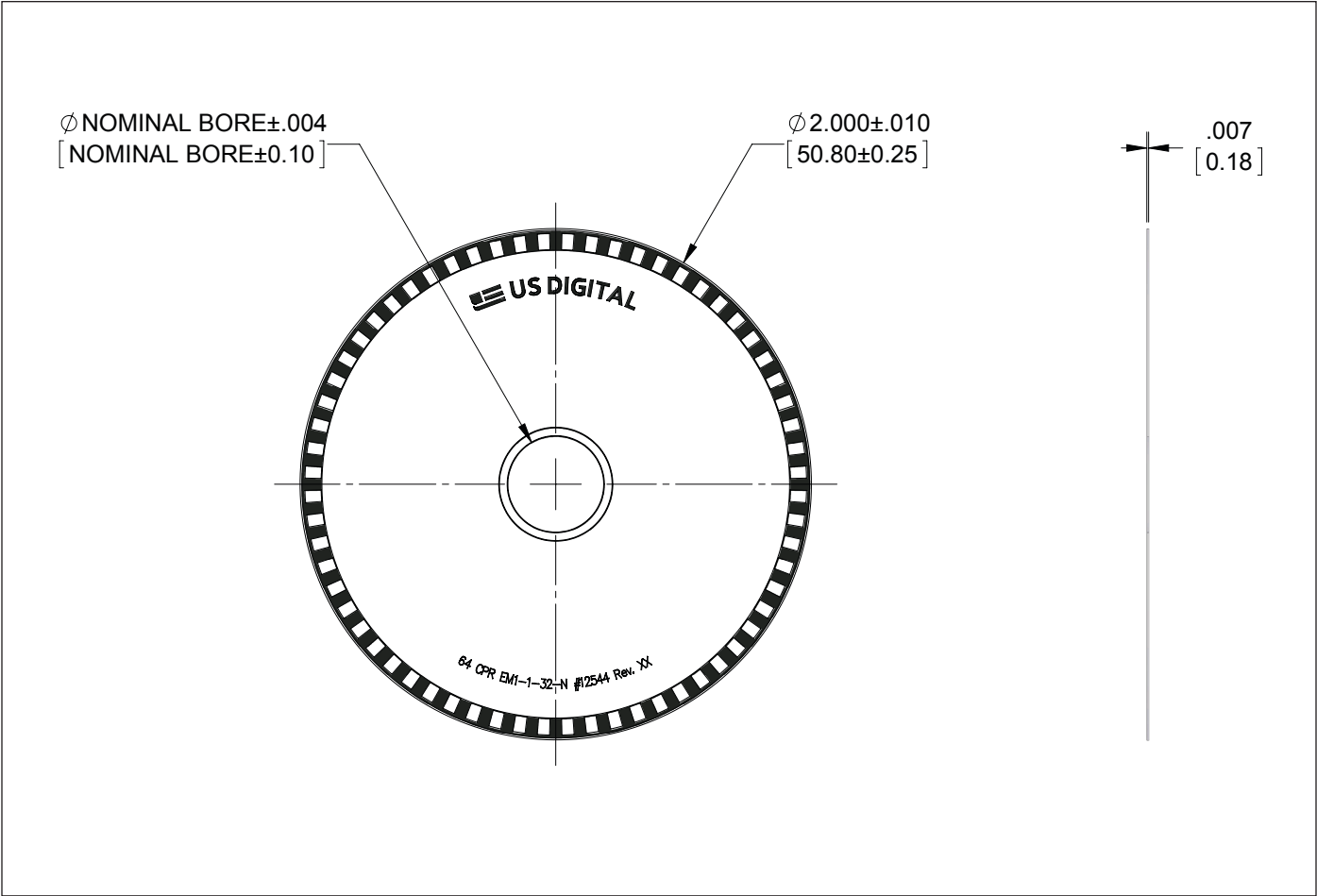
Mechanical alignment drawings for optical encoder rotary disks and optical encoder modules are available (see the [EM1\(1\)](#) and [EM2\(2\)](#) pages).

2 in. Transmissive Rotary Encoder Disk

Product ID | DISK-2



Mechanical Drawings



DISK-2 2 in. Transmissive Rotary Disk

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Specifications

General

Parameter	Value	Units
Inside Diameter (ID) tolerance	±0.004	in.
Outside Diameter (OD)	2 ± 0.010	in.
Thickness	0.007	in.
Temperature Range	-40 to 100	C

Compatible Encoder Modules

CPR	2 in. DISK Non-Index	MODULE Non-Index	2 in. DISK Index	MODULE Index
64	DISK-2-64-*-NE	EM1-1-32-N		
100	DISK-2-100-*-NE	EM1-1-50-N	DISK-2-100-*-IE	EM1-1-50-I
200	DISK-2-200-*-NE	EM1-1-100-N	DISK-2-200-*-IE	EM1-1-100-I
400	DISK-2-400-*-NE	EM1-1-200-N	DISK-2-400-*-IE	EM1-1-200-I
800	DISK-2-800-*-NE	EM1-1-400-N	DISK-2-800-*-IE	EM1-1-400-I
500	DISK-2-500-*-NE	EM1-2-500-N	DISK-2-500-*-IE	EM1-2-500-I
512	DISK-2-512-*-NE	EM1-2-500-N	DISK-2-512-*-IE	EM1-2-500-I
1000	DISK-2-1000-*-NE	EM1-2-1000-N	DISK-2-1000-*-IE	EM1-2-1000-I
1024	DISK-2-1024-*-NE	EM1-2-1024-N	DISK-2-1024-*-IE	EM1-2-1024-I
1800	DISK-2-1800-*-NE	EM1-2-1800-N	DISK-2-1800-*-IE	EM1-2-1800-I
2000	DISK-2-2000-*-NE	EM1-2-2000-N	DISK-2-2000-*-IE	EM1-2-2000-I
2048	DISK-2-2048-*-NE	EM1-2-2048-N	DISK-2-2048-*-IE	EM1-2-2048-I
2500	DISK-2-2500-*-NE	EM1-2-2500-N	DISK-2-2500-*-IE	EM1-2-2500-I
3600			DISK-2-3600-*-IE	EM2-2-3600-I
4000			DISK-2-4000-*-IE	EM2-2-4000-I
4096			DISK-2-4096-*-IE	EM2-2-4096-I
5000			DISK-2-5000-*-IE	EM2-2-5000-I
7200			DISK-2-7200-*-IE	EM2-2-7200-I

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Specifications

Compatible Encoder Modules

CPR	2 in. DISK Non-Index	MODULE Non-Index	2 in. DISK Index	MODULE Index
8000			DISK-2-8000-*-IE	EM2-2-8000-I
8192			DISK-2-8192-*-IE	EM2-2-8192-I
10000			DISK-2-10000-*-IE	EM2-2-10000-I

*Represents the bore size

Notes

- Cables and connectors are not included and must be ordered separately.
- US Digital® warrants its products against defects in materials and workmanship for two years. See complete [warranty^{\(3\)}](#) for details.

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Part Number Guide and Configuration Options

Product ID -

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DISK-2	CPR	Disk ID	Index
	64	093 (0.093 in.)	IE (Index)
	100	125 (0.125 in.)	I (Index)
	200	375 (0.375 in.)	NE (Non-Index)
	400		
	500	441 (0.441 in.)	
	512	472 (0.472 in.)	
	800		
	1000	500 (0.500 in.)	
	1024		
	1800	551 (0.551 in.)	
	2000		
	2048	625 (0.625 in.)	
	2500	750 (0.750 in.)	
	3600		
	4000	875 (0.875 in.)	
	4096		
	5000	984 (0.984 in.)	
	7200	1000 (1.000 in.)	
	8000	1021 (1.021 in.)	
	8192		
	10000	1125 (1.125 in.)	
		1181 (1.181 in.)	

PLEASE NOTE: This chart is for informational use only. Certain product configuration combinations are not available. Visit the [DISK-2^{\(4\)}](#) product page for pricing and additional information.

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Reference Links



(1) EM1 Transmissive Optical Encoder Module



(2) EM2 Transmissive Optical Encoder Module



(3) Legal Terms and Conditions, Warranty



(4) DISK-2 2 In. Transmissive Rotary Encoder Disk