



Features of the 1 in. Transmissive Rotary Encoder Disk



- 1 in. outside diameter
- Mylar film construction
- 32 to 5,000 CPR
- Index track option
- Compatible with US Digital's EM1 and EM2 encoder modules

Description

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



The 32 CPR is only available without an index (NE); other resolutions 1250 CPR and below, may be ordered with or without an index, while 2000 CPR and above are only available with an index (IE).

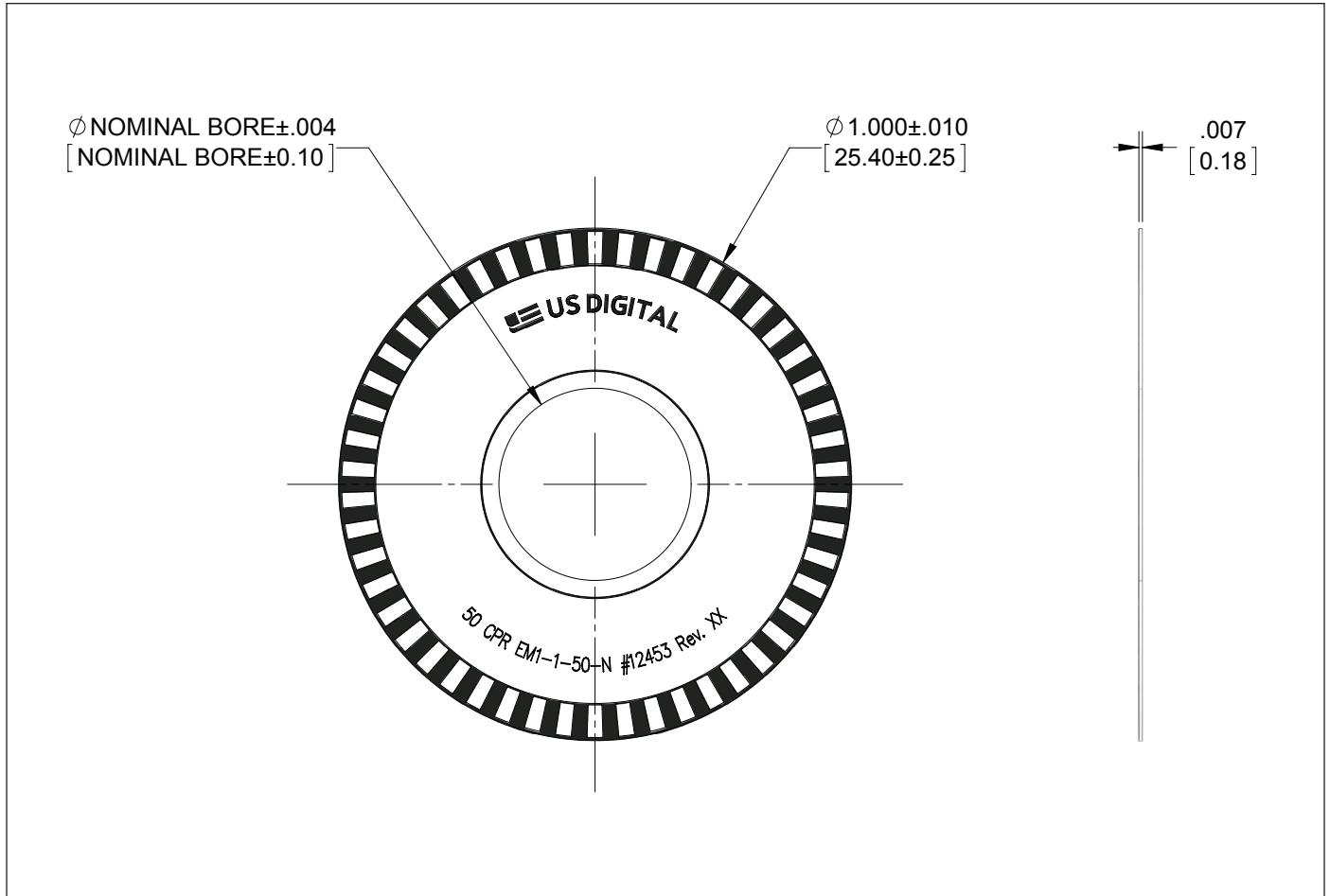
Mechanical alignment drawings for optical encoder rotary disks and optical encoder modules are available (see the [EM1\(1\)](#) and [EM2\(2\)](#) pages).

1 in. Transmissive Rotary Encoder Disk

Product ID | DISK-1



Mechanical Drawings



DISK-1 1 in. Transmissive Rotary Disk

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Specifications

General

Parameter	Value	Units
Inside Diameter (ID) tolerance	± 0.004	in.
Outside Diameter (OD)	1 ± 0.010	in.
Thickness	0.007	in.
Temperature Range	-40 to 100	C

Compatible Encoder Modules

CPR	1 in. DISK Non-Index	MODULE Non-Index	1 in. DISK Index	MODULE Index
32	DISK-1-32-*-NE	EM1-1-32-N		
50	DISK-1-50-*-NE	EM1-1-50-N	DISK-1-50-*-IE	EM1-1-50-I
96	DISK-1-96-*-NE	EM1-1-100-N	DISK-1-96-*-IE	EM1-1-100-I
100	DISK-1-100-*-NE	EM1-1-100-N	DISK-1-100-*-IE	EM1-1-100-I
120	DISK-1-120-*-NE	EM1-1-100-N		
200	DISK-1-200-*-NE	EM1-1-200-N	DISK-1-200-*-IE	EM1-1-200-I
192	DISK-1-192-*-NE	EM1-1-200-N	DISK-1-192-*-IE	EM1-1-200-I
250	DISK-1-250-*-NE	EM1-1-250-N	DISK-1-250-*-IE	EM1-1-250-I
256	DISK-1-256-*-NE	EM1-1-250-N	DISK-1-256-*-IE	EM1-1-250-I
360	DISK-1-360-*-NE	EM1-1-360-N	DISK-1-360-*-IE	EM1-1-360-I
400	DISK-1-400-*-NE	EM1-1-400-N	DISK-1-400-*-IE	EM1-1-400-I
500	DISK-1-500-*-NE	EM1-1-500-N	DISK-1-500-*-IE	EM1-1-500-I
512	DISK-1-512-*-NE	EM1-1-512-N	DISK-1-512-*-IE	EM1-1-512-I
540	DISK-1-540-*-NE	EM1-1-540-N	DISK-1-540-*-IE	EM1-1-540-I
720	DISK-1-720-*-NE	EM1-1-720-N	DISK-1-720-*-IE	EM1-1-720-I
800	DISK-1-800-*-NE	EM1-1-800-N	DISK-1-800-*-IE	EM1-1-800-I
1000	DISK-1-1000-*-NE	EM1-1-1000-N	DISK-1-1000-*-IE	EM1-1-1000-I
1024	DISK-1-1024-*-NE	EM1-1-1024-N	DISK-1-1024-*-IE	EM1-1-1024-I

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Specifications

Compatible Encoder Modules

CPR	1 in. DISK Non-Index	MODULE Non-Index	1 in. DISK Index	MODULE Index
1250	DISK-1-1250-*-NE	EM1-1-1250-N	DISK-1-1250-*-IE	EM1-1-1250-I
2000			DISK-1-2000-*-IE	EM2-1-2000-I
2048			DISK-1-2048-*-IE	EM2-1-2048-I
2500			DISK-1-2500-*-IE	EM2-1-2500-I
4000			DISK-1-4000-*-IE	EM2-1-4000-I
4096			DISK-1-4096-*-IE	EM2-1-4096-I
5000			DISK-1-5000-*-IE	EM2-1-5000-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-1	CPR	Disk ID	Index
	32	093 (0.093 in.)	IE (Index)
	50	125 (0.125 in.)	I (Index)
	96		NE (Non-Index)
	100	375 (0.375 in.)	
	120	441 (0.441 in.)	
	192		
	200		
	250		
	256		
	360		
	400		
	500		
	512		
	540		
	720		
	800		
	900		
	1000		
	1024		
	1250		
	2000		
	2048		
	2500		
	4000		
	4096		
	5000		

PLEASE NOTE: This chart is for informational use only. Certain product configuration combinations are not available. Visit the [DISK-1^{\(4\)}](#) product page for pricing and additional information.

1 in. Transmissive Rotary Encoder Disk

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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-1 1 In. Transmissive Rotary Encoder Disk