

PNH2S 33-512

iC-PNH3312 Encoder Disc and Code Description

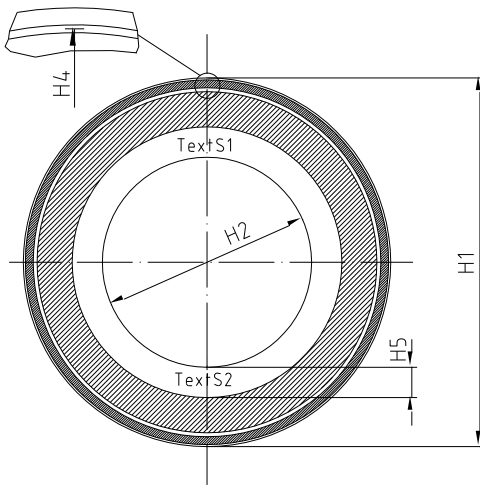


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ORDERING INFORMATION

Type	Order Designation	Description/Options
Encoder Disc	PNH2S 33-512	Nonius Code Disc 512 PPR, dia 33.2 mm

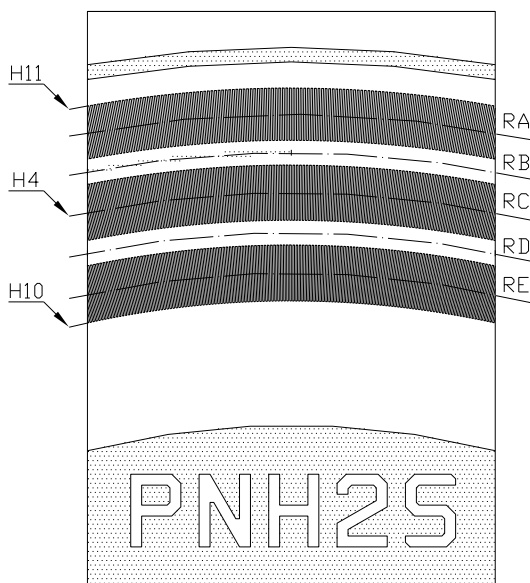
PHYSICAL DIMENSIONS



Design Example

Item	Parameter	Comments	[mm]	Tolerance
H1	Outer Diameter		33.2	$\pm 100 \mu\text{m}$
H2	Inner Diameter		18.0	$+ 200 \mu\text{m}$
H3	Thickness		1.0	$\pm 100 \mu\text{m}$
H4	Radius of Chip Center	referred to origin	14.5	
H5	Distance Pattern to Drill Hole		2.3	
H6	Code Track Eccentricity	referred to center of inner hole	± 0.2	
H7	TextS1	readable on side of pattern		PNH2S
H8	TextS2	readable on side of pattern		33-512

TRACK LAYOUT



Item	Parameter	Comments	[mm]
H4	Radius of Chip Center	referred to origin	14.500
H10	Code Pattern Radius	begin	13.060
H11	Code Pattern Radius	end	15.940
H12	Recommended LED Spot Diameter	LED Spot	> 3.2
H13	Recommended LED Spot Center	radius as center of illumination	14.500
RA	Track Radius Nonius		15.580
RB	Track Radius MTA		15.050
	Track Height MTA		0.08
RC	Track Radius Master		14.500
RD	Track Radius MTB		13.950
	Track Height MTB		0.08
RE	Track Radius Segment		13.420

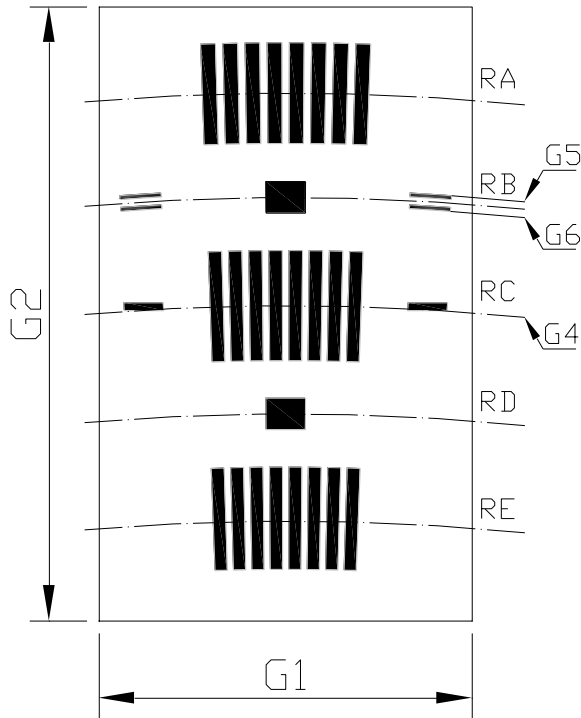
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PHYSICAL DIMENSIONS: Photosensor Array



Item	Parameter	Comments	[mm]
G0	Name and Design Release	iC-PNH3312	
G1	Window Width		1.90
G2	Window Height		3.24
G4	Radius of Chip Center	referred to origin	14.500
G5	Reflective Alignment Aid	end of circle	15.090
G6	Reflective Alignment Aid	begin of circle	15.010
RA	Track Radius Nonius		15.580
RB	Track Radius MTA		15.050
	Sensor Height MTA		0.160
RC	Track Radius Master		14.500
RD	Track Radius MTB		13.950
	Sensor Height MTB		0.160
RE	Track Radius Segment		13.420

TRACK ASSIGNMENT: Photosensor Array

Radius	Signal			
RA	510 PPR PCOSN	510 PPR NSINN	510 PPR NCOSN	510 PPR PSINN
RB	1 PPR			
RC	512 PPR PCOSM	512 PPR NSINM	512 PPR NCOSM	512 PPR PSINM
RD	1 PPR			
RE	480 PPR PCOSS	480 PPR NSINS	480 PPR NCOSS	480 PPR PSINS

Track	Pattern
	0° 45° 90° 135° 180° 225° 270° 315° 0°
MTA	
MTB	

Track	Pattern
	0°
PCOSN-NCOSN	
PSINN-NSINN	
PCOSM-NCOSM	
PSINM-NSINM	
PCOSS-NCOSS	
PSINS-NSINS	

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