

# LSHC16S 18-64N

## iC-LSHC Encoder Disc and Code Description

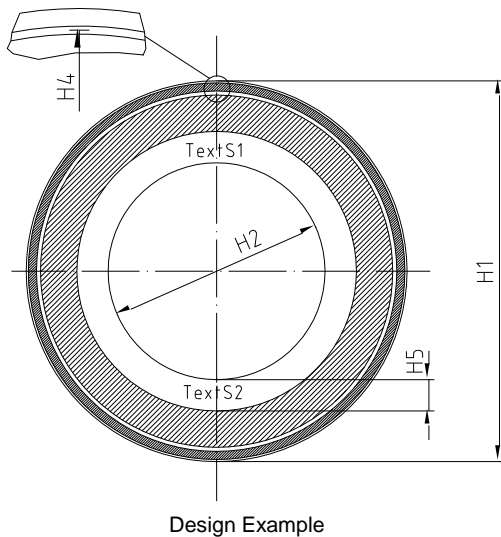


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### CODE DISC ORDERING INFORMATION

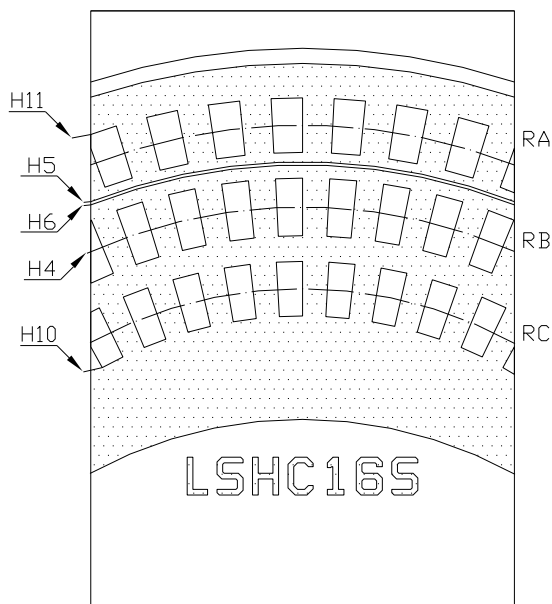
Type	Order Designation	Description/Options
Encoder Disc	LSHC16S 18-64N	Nonius Code Disc 64 PPR, dia 18 mm

### PHYSICAL DIMENSIONS: Disc



Item	Parameter	Comments	[mm]	Tolerance
H1	Outer Diameter		18.0	$\pm 100 \mu\text{m}$
H2	Inner Diameter		3.0	$\pm 100 \mu\text{m}$
H3	Thickness		1	$\pm 100 \mu\text{m}$
H4	Radius of Chip Center (referred to origin)		6.905	
H5	Distance Pattern to Drill Hole		2.5	
H6	Code Track Eccentricity	referred to center of inner hole	$\pm 0.2$	
H7	TextS1	readable on side of pattern	LSHC16S	
H8	TextS2	readable on side of pattern	18-64	

### TRACK LAYOUT: Disc



Item	Parameter	Comments	[mm]
H4	Radius of Chip Center (referred to origin)		6.905
H10	Code Pattern Radius	end	8.390
H11	Code Pattern Radius	begin	5.310
H12	Recommended LED Spot Diameter	LED Spot	$> 3.2$
H13	Recommended LED Spot Center	radius as center of illumination	6.905
H14	Alignment Circle	end of circle	7.500
H15	Alignment Circle	begin of circle	7.460
RA	Track Radius	RA	7.985
RB	Track Radius	RB	6.905
RC	Track Radius	RC	5.825

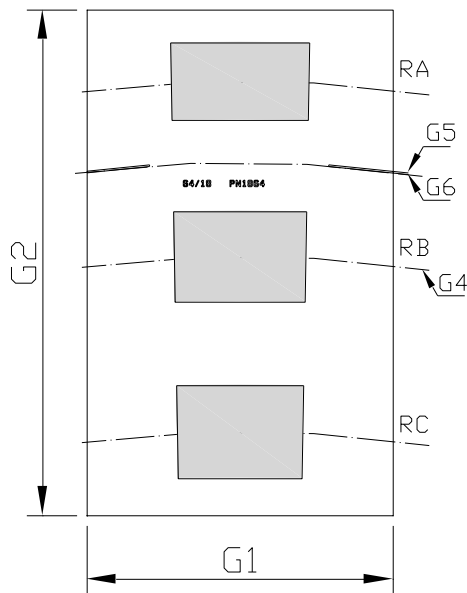
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## iC-LSHC Encoder Disc and Code Description



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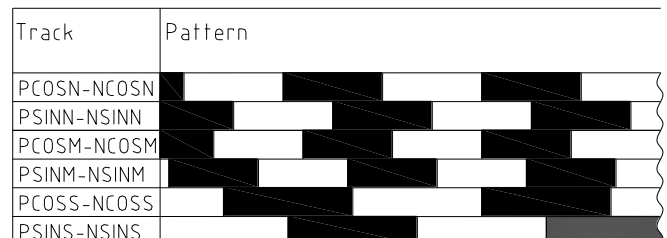
### PHYSICAL DIMENSIONS: Reticle



Item	Parameter	Comments	[mm]
G0	Name and Design Release	iC-PN1864	
G1	Window Width		1.90
G2	Window Height		3.24
G4	Radius of Chip Center	referred to origin	6.905
G5	Reflective Alignment Aid	end of circle	7.485
G6	Reflective Alignment Aid	begin of circle	7.475
RA	Track Radius Nonius		7.985
RB	Track Radius Master		6.905
RC	Track Radius Segment		5.825

### TRACK ASSIGNMENT: Reticle

Radius	Signal			
	RA	63 PPR PSINN	63 PPR PCOSN	63 PPR NSINN
RB	64 PPR PSINM	64 PPR PCOSM	64 PPR NSINM	64 PPR NCOSM
RC	56 PPR PSINS	56 PPR PCOSS	56 PPR NSINS	56 PPR NCOSS



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