Through hollow shaft ø10 to ø14 mm 1024, 2048 sinewave cycles per turn

ITD22H00



ITD22H00 with through hollow shaft

Features

1

- Robust industry standard
- Wide operating temperature range
- Up to 2048 sinewaves cycles per turn
- Sine output signals 1 Vpp
- LowHarmonics® signal quality
- Detachable cable tangential outlet
- Perfect control quality at all rotational speeds

Technical data - electrical ratings			
Voltage supply	5 VDC ±10 % 830 VDC		
Reverse polarity protection Yes			
Consumption w/o load	≤100 mA		
Sinewave cycles per turn	10242048		
Sensing method	Optical		
Output frequency	≤180 kHz (-3 dB)		
Output signals	A, B, 0		
Output stages	SinCos 1 Vpp		
Interference immunity	DIN EN 61000-6-2		
Emitted interference	DIN EN 61000-6-3		

rechnical data - mechanical design		
Size (flange)	ø58 mm	
Shaft type	ø10 mm (through hollow shaft)	
	ø12 mm (through hollow shaft)ø14 mm (through hollow shaft)	
Protection DIN EN 60529	IP 65	
Operating speed	≤6000 rpm	
Starting torque	≤0.015 Nm (+20 °C)	
Materials	Housing: aluminium	
	Shaft: stainless steel	
Operating temperature	-30+100 °C	
Relative humidity	90 % non-condensing	
Resistance	DIN EN 60068-2-6	
	Vibration 20 g, 60-2000 Hz	
	DIN EN 60068-2-27	
	Shock 100 g, 6 ms	
Connection	Board connector, 8-pin	
Weight approx.	150 g	



Through hollow shaft ø10 to ø14 mm 1024, 2048 sinewave cycles per turn

ITD22H00

Part number

ITD22H00	NI	S21SG8	E	IP65
			12 14 Ope	Protection IP65 IP 65 Through hollow shaft 0 ø10 mm 2 ø12 mm 4 ø14 mm erating temperature+100 °C
	NI Voltag	S21SG8 I Output signa A+, A-, B+, I ge supply / s	als B-, N+, N signals	nnector type 21, pin contacts, straight, 8-pin
		C / sine 1 Vp VDC / sine	-	

Sinewave cycles - see table

Sinewave cycles

1024 2048

Through hollow shaft ø10 to ø14 mm 1024, 2048 sinewave cycles per turn

ITD22H00

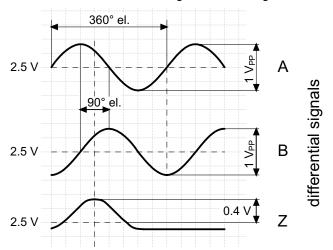
Accessorie	es
Connectors	s and cables
11072169	Connection cable with FCI, 8-pin / wire end sleeves (UL/CSA), 1 m
11093848	Connection cable with FCI, 8-pin / wire end sleeves (UL/CSA), 2 m
11092928	Connection cable with FCI, 8-pin / wire end sleeves (UL/CSA), 3 m
11077007	Connection cable with FCI, 8-pin / wire end sleeves (UL/CSA), 5 m
11080879	Connection cable with FCI, 8-pin / wire end sleeves (UL/CSA), 10 m
11079089	Connection cable with rear mount socket M23, 12-pin, 1 m
11106562	Connection cable with FCI, 8-pin / D-SUB, 9-pin, 0.3 m
11079111	Connection cable with FCI, 8-pin / D-SUB, 9-pin, 1 m
11079113	Connection cable with coupling M12, 8-pin, 1 m
11079112	Connection cable with crimp contacts (UL/CSA), 0.2 m
Mounting a	accessories
11066080	Torque arm, 1-arm, bolt circle ø7680 mm, mounting M4 (mounting kit 002)
11066083	Torque arm, 1-arm, bolt circle ø7494 mm, mounting M4/M5 (mounting kit 006)
11073114	Torque arm, 3-armed, bolt circle ø76 mm, mounting M3 (mounting kit 019)
11073119	Torque arm, 1-arm, bolt circle ø65.5281 mm, mounting M4, can be cut to length (mounting kit 021)
11069239	Torque arm, 1-arm, bolt circle ø110130 mm, mounting M5 (mounting kit 092)
11116921	Insulating sleeve ø10 mm/ø12 mm/25 mm long
11116923	Insulating sleeve ø12 mm/ø14 mm/25 mm

Further connection cable lengths see accessories.

long

Output signals

Clockwise rotation when looking at the mounting side.



Terminal assignment				
Connector	Assignment			
Pin 1	UB			
Pin 2	GND			
Pin 3	Track A +			
Pin 4	Track A -			
Pin 5	Track B +			
Pin 6	Track B -			
Pin 7	Track N +			
Pin 8	Track N -			
Pin 1				

Output signal level	
Outputs	Sine
Output amplitude A + B	1 V_{PP} at Z_0 = 120 Ω
Output amplitude N	approx. 0,4 V (useable part) at $Z_0 = 120 \Omega$



Through hollow shaft ø10 to ø14 mm 1024, 2048 sinewave cycles per turn

ITD22H00

Dimensions

