





# **2RHIDS**

# CE

### Introduction

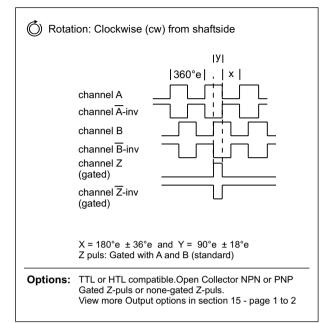
Standard dobbelt shaft encoder Std. IP 64 Thermal shut down at 155°C Strong compact electronics Based on 2 precision ball bearings, for harsh industrial environments

MECHANICAL SPECIFICATIONS				
Weight	About 930g + cable 60g/meter			
Material	Housing - Aluminum Shaft - Stainless Steel Bearings - Lifetime lubricated ball bearings			
Shaft Loads	axial maximum = 50 N radial maximum = 50 N			
Max. rev.	3,000 rev./min.			
IP-rating	Standard IP 65			
Start Torque	< 0,1 Nm at 25° C			
Mass Moment of Inertia	45 gcm <sup>2</sup>			
Shock	maximum 100G / 11 ms			
Bump	10G - 16 ms (1000 × 3 axis)			
Vibration	(10-2000Hz)/ 10G			

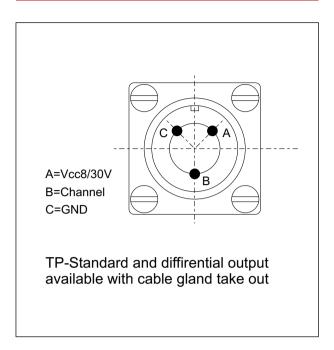
ELECTRICAL SPECIFICATIONS				
Output Waveform	Incremental (A, B)			
Output Signals	Standard, B channel only			
Current No Load	Max.45 mA			
Max. load pr. output	30 mA - (Short circuit protected)*			
Supply-Voltage(Vin)	Min 4,5V to Max. 30V* , Reverse polarity protection			
V <sub>out</sub> low	maximum 500 mV @ I = 10 mA			
V <sub>out</sub> high	minimum (Vin -0.6) @ I = -10 mA minimum (Vin -1.3) @ I = -25 mA			
Operating Temp.	- 40°C to +75°C			
Storage Temp.	- 40°C to +75°C			



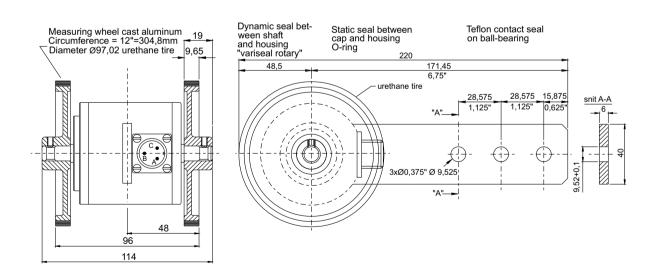
#### OUTPUT WAVEFORM



#### CONNECTIONS



#### **MECHANICAL DIMENSIONS**







## ORDERING CODES

# Ordering Codes System Incremental Shaft Encoder — 2RHIDS

Ore	dering Codes: 2RHIDS XXX	«xx —	<b>X</b> ·	— xxxxx -	<b>- XX</b>	<u> </u>
Pulses pr. rev:	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	XXX 500 500 500 500 996 996 996 990 992 900				
Output signal:	Normal (TP-Standard) 3 channel = A, B, Z		Ν			
	Line driver OL 7272 for extra long cable, up to 100 meters (Differential)		Μ			
	Line driver chip 26C31 (V out low < 0,4 V) (RS-422A compatible @ 5V Only 5 Volt (Differential)		L			
Shaft dimensions:	3/8"(Ø9,525) × 20 mm			38 × 20		
IP-rating:	IP 64				64	
Cable take out:	Side					S



#### WARRANTY

Scancon A/S warrants against manufacturing defects for a period of 12 months from the date of manufacture.Product dimensions, weights and all product illustrations are approximate and may be modified without prior notice.

This warranty does not cover problems or consequences due to common usage (wear and tear) for which the product was designed. Nor does it cover product failures caused by improper installation or use, overloading, incorrect maintenance, or operation outside the product's specifications.

Detailed warranty information can be found in Scancon's Terms & Conditions