



2RSR C€

Introduction

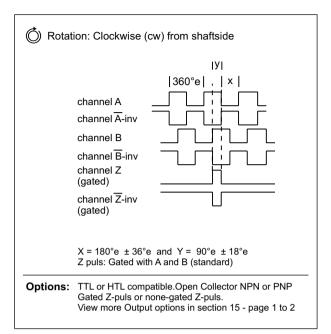
Standard shaft encoder, Stainless steel High rating, IP 67 Thermal shut down at 155°C Strong compact electronics Based on 2 precision ball bearings, for harsh industrial environments

MECHANICAL SF	PECIFICATIONS					
Weight	About 235g + cable 60g/meter					
Material	Housing - Stainless steel (AISI303) (A2) Shaft - Stainless Steel (AISI303) (A2) Bearings - Lifetime lubricated ball bearings					
Shaft Loads	axial maximum = 20 N radial maximum = 20 N					
Max. rev.	6,000 rev./min.					
IP-rating	Standard IP 67, Cable gland IP 67 Static seal between cap and housing (O-ring) Rotary seal for IP 67					
Start Torque	< 0,01 Nm at 25° C					
Mass Moment of Inertia	2 gcm ²					
Shock	maximum 100G / 11 ms					
Bump	10G - 16 ms (1000 × 3 axis)					
Vibration	(10-2000Hz)/ 10G					

ELECTRICAL SPECIFICATIONS						
Output Waveform	Incremental (A, B, Z and inverted)					
Output Signals	Normal (Standard), Inverted, Differential (RS-422A compatible @ 5V)					
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_{out} low	maximum 500 mV @ I = 10 mA					
V _{out} high	minimum (Vin -0.6) @ I = -10 mA minimum (Vin -1.3) @ I = -25 mA					
Operating Temp.	- 40°C to +85°C					
Storage Temp.	- 40°C to +85°C					



OUTPUT WAVEFORM



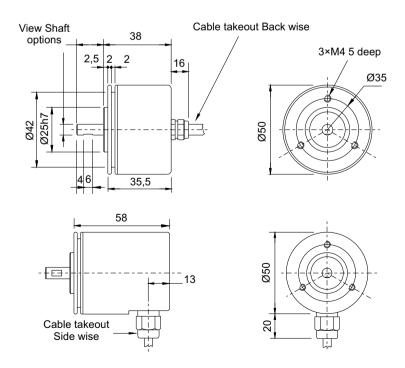
CONNECTIONS

Color code	Standard			
Pink	Ch. A			
Grey*	Ch. A Gnd			
Green	Ch. B			
Yellow*	Ch. B Gnd			
White	Ch. Z			
Brown*	Ch. Z Gnd			
Red	Vcc			
Blue*	Gnd			

*Blue, grey, yellow and brown are internal connected

Color code	Differential		
Pink	Ch. A		
Grey	Ch. A inv		
Green	Ch. B		
Yellow	Ch. B inv		
White	Ch. Z		
Brown	Ch. Z inv		
Red	Vcc		
Blue	Gnd		

MECHANICAL DIMENSIONS





ORDERING CODES

Ordering Codes System Incremental Shaft Encoder — 2RSR

Ordering Codes: 2RSR XXXXXX - XX - XX - XX - XX

Pulses pr. rev:	No. of pulses 1 25 80 300 800 2 30 90 360 1000 5 32 100 400 1024 6 36 125 455 1131 8 40 150 500 1250 10 50 180 512 1500 15 60 200 600 2000 16 64 250 635 2048 20 75 256 720 2400	XXXXX 2500 12500 3000 3600 4000 4096 5000 8192 9000 10000					
Output signal:	Normal (TP-Standard) 3 channel = A, B, Z		N				
	TP-Differential, 6 channers, B, Z and A-inv, B-inv,	el Z-inv	D				
	Line driver OL 7272 for extra long cable, up to 100 meters (Differential))	М				
	Line driver chip 26C31 (V out low < 0,4 V) (RS-422A compatible @ Only 5 Volt (Differential)		L				
	Line Driver RS-422, Chi Volt out 5 volt Volt in 5 to 30 (Differential)	p 26C31	5L				
Shaft dimensions:	Ø6 mm× 15 mm Ø8 mm × 15 mm Ø10 mm × 15 mm			06 × 15 08 × 15 10 × 15			
IP-rating:	IP 67				67		
Cable Length:	Standard 1 meter No. of meters					01 XX	
Cable take out: (or connector)	Back (Axial) Side (Radial)						B S
Connector:	Coninvers Connector or View Section 14 page 3		or				
More accessories Measuring wheel and Anti rotation spring an		ion 14 page ^r ion 10 page ^r	1 to 2 1 to 6				

Incremental Shaft Encoder



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