

INCREMENTAL ENCODER

- Optical Incremental sensing, Industry Standard Size 24mm
- Robustness and excellent resistance to shocks / vibrations
- Max pulses per turn 10 000ppr
- Universal complementary push-pull (short circuit protected, 7272)
RS422 compatible with 5 V supply voltage



ELECTRICAL CHARACTERISTICS

Output Circuit	RS422 (TTL-compatible)	Push-pull (HTL)
Supply Voltage	5V or 5-30V	5-30V
Current Consumption	40 mA (max)	40 mA (max)
Impulse Frequency	300 kHz (max)	300 kHz (max)
"Low" signal level	VOL < 0,5 V	VOL < 2.5 V
"High" signal level	VOH > 2.5 V	VOH > Vcc - 3 V
EMC	EN61000-6-2 and EN61000-6-4	

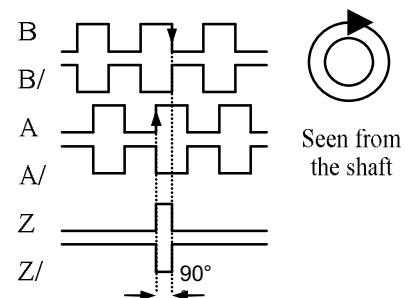
MECHANICAL CHARACTERISTICS

Housing	Aluminium
Shaft Bearing	Stainless Steel
Shaft fixation	Front or Rear clamp
Bearings	Ballraces
Maximum number of revolutions permitted mechanically	12 000ppr
Bearings lifetime	1x10 ¹⁰ rev
Rotor inertia moment	30 gcm ²
Starting Torque	<0.5 N cm
Maximum load permitted on shaft	Axial 5 N, Radial 10 N
Protection	IP 65
Operating Temperature	-30...+100° C
Storage Temperature	-40...+100° C
Shock resistance	100g, 6ms (IEC 68-2-27)
Vibration resistance	100g, 6ms (IEC 68-2-27)
Weight	300g

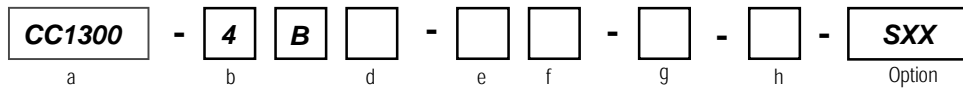
CONNECTION AND OUTPUT SIGNALS

Function	Cable Colour Code
0 Volt	white
+ Volt	brown
A	green
B	yellow
0	grey
Ā	pink
B̄	blue
0̄	red
Ground case	shielding

Output waveforms



ORDERING CODE



a Series

Incremental Encoder

b Shaft Type

4= Blind hollow shaft

d Shaft size

4,6mm

e Power supply

2= 5Vdc

6= 5-30Vdc

f Output circuit

3 = Driver 5Vdc RS422 (TTL)

5 = Push-Pull 5-30Vdc (HTL)

g Pulse per Revolution

1024,2048,2500....

h Connector

N = Cable Radial 2m

MECHANICAL DRAWINGS

Cable connection with 2m cable

