CARLENsensors

CC1400 Series

INCREMENTAL ENCODER

- Optical Incremental encoder, Industry Standard Size 38mm
- Robustness and excellent resistance to shocks / vibrations.
- High protection level IP65, IP67 option with a sealing flange
- Maximum pulses per turn 3 600ppr
- Universal electronic circuits from 5 to 30 Vdc
- High performances in temperature –30°C to 100°C (option –40°C).
- 300 kHz Maximum Frequency.

ELECTRICAL CHARACTERISTICS

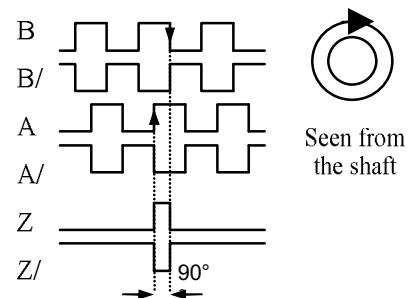|		
Output Circuit	RS422 (TTL-compatible)	Push-pull (HTL)
Supply Voltage	5V or 5-30V	5-30V
Current Consumption	40 mA (max)	40 mA (max)
Impulse Frequency	300 kHz (max)	300 kHz (max)
"Low" signal level	$V_{OL} < 0,5$ V	$V_{OL} < 2.5$ V
"High" signal level	$V_{OH} > 2.5$ V	$V_{OH} > V_{cc} - 3$ V
EMC	EN61000-6-2 and EN61000-6-4	

MECHANICAL CHARACTERISTICS

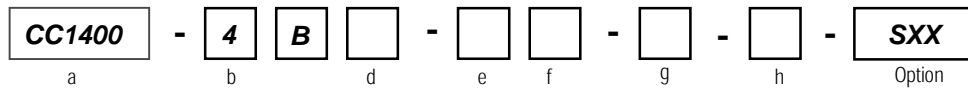|	
Housing	Aluminium
Shaft	Stainless Steel
Bearings	Ballraces
Maximum number of revolutions permitted mechanically	10 000rpm
Bearings lifetime	1×10^{10} rev
Rotor inertia moment	30 gcm²
Starting Torque	< 0.5 N cm
Maximum load permitted on shaft	Axial 5N, Radial 10N
Protection	IP 65
Operating Temperature	-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	500g
Axial or radial connection	Cable 2 metres (other cable lenght available on order)

CONNECTION AND OUTPUT SIGNALS

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

Output waveforms

Seen from the shaft

We reserve the right to modify technical features in the interest of technological advance.

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CC1400	-	4	B		-		-		-		-	SXX
a		b	d		e	f		g		h		Option

a **Series**
   Incremental Encoder

b **Shaft Type**
   4= Blind hollow shaft

d **Shaft size**
   6,8mm

e **Power supply**
   2= 5Vdc
   6= 5-30Vdc

f **Output circuit**
   3 = Driver 5Vdc RS422 (TTL)
   5 = Push-Pull 5-30Vdc (HTL)

g **Pulse perRevolution**
   1024,2048.2500....

h **Connector**
   N = Cable Radial 2m

MECHANCIAL DRAWINGS

Blind Hollow shaft , Radial Cable exit 2m