INCREMENTAL ENCODER

- Optial Incremental encoder, Industry Standard Size 50mm
- Robustness and excellent resistance to shocks / vibrations
- High protection level IP65, IP67 option with a sealing flange
- Maximum pulses per turn 8 0000ppr
- Universal electronic circuits from 5 to 30 Vdc
- 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	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	

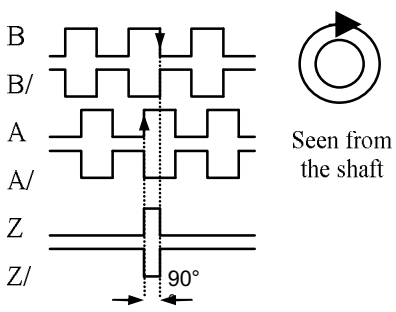
MECHANICAL CHARACTERISTICS

Housing	Aluminium
Shaft	Stainless Steel
Bearings	Ballraces
Maximum number of revolutions permitted mechanically	12 000 rpm
Bearings lifetime	$1x10^{10}$ rev
Rotor inertia moment	30 gcm^2
Starting Torque	< 1.5 Ncm
Maximum load permitted on shaft	Axial 20 N,Radial 50 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	680g
Axial or radial connection	Cable 2 metres (other cable lenght available on order)

CONNECTION AND OUTPUT SIGNALS

Function	Cable Colour Code	12 Pin Connector
0 Volt	white	1
+ Volt	brown	2
A	green	3
B	yellow	4
0	grey	5
$\bar{A}$	pink	6
$\bar{B}$	blue	7
$\bar{0}$	red	8
Ground case	shielding	shielding

Output waveforms



ORDERING CODE

CC1501	-	2	C		-			-		-			-	SXX
a		b	c	d		e	f		g		h	j		Option

a **Series**
Incremental Encoder

b **Shaft Type**
2=full shaft

d **Shaft size**
6,8 mm

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**
1024,2048,4096....

h **Connector Location**
1=Axial
2=Radial

j **Connection**
6= Cable
8= M23 Connector

MECHANICAL DRAWINGS

Clamping flange , Axial Cable exit 2m