

INCREMENTAL ENCODER

- Optical Incremental sensing, Industry Standard Size 158mm
- Through hollow shaft 72mm with reduction hubs in aluminium of 45,48,50,55,60 and 65mm
- Easy mounting for the hollow shafts thanks to DAC (Anti-Coupling Device).
- Robustness and excellent resistance to shocks / vibrations.
- Maximum pulses per turn 2500ppr.
- Universal complementary push-pull (short circuit protected, 7272) RS422 compatible with 5 V supply voltage.
- High performances in temperature -30°C to 100°C (option -40°C).
- 300 kHz Maximum Frequency.



ELECTRICAL CHARACTERISTICS

Output Circuit	RS422 (TTL-compatible)	Pushi-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	

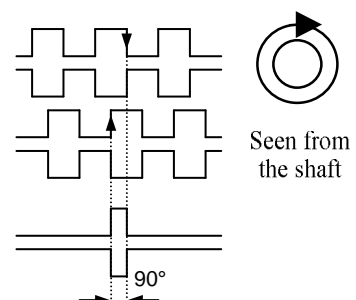
MECHANICAL CHATACTERISTICS

Hosing	Aluminium
Shaft	Stainless Steel
Shaft fixation	Front or Rear clamp
Bearings	Ballraces
Maximum number of revolutions permitted mechanically	6000 rpm
Bearings lifetime	1×10^{10} rev
Rotor inertia moment	160 gcm ²
Starting Torque	< 6 N cm
Maximum load permitted on shaft	Axial 100 N,Radial 150 N
Protection	IP 65
Operating Temperature	-30°C ... $+100^{\circ}\text{C}$
Storage Temperature	-40°C ... $+100^{\circ}\text{C}$
Shock resistance	100g, 6ms (IEC 68-2-27)
Vibration resistance	100g, 6ms (IEC 68-2-27)
Weight	1.8kg

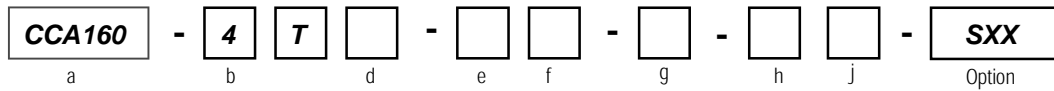
CONNECTION AND OUTPUT SIGNALS

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

Output waveforms



ORDERING CODE



a Series
Incremental Encoder

b Shaft Type
4=hollow shaft

d Shaft size
45...72mm

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
1024,2048,4096....

h Connector Location
2=Radial

j Connection
6= 2m Cable (standard)
8= M23 Connector
9= Terminal Box

MECHANICAL DRAWINGS

Flange with long torque stop, radial Cable exit 2m

