

INCREMENTAL ENCODER

- Optical Incremental encoder, Industry Standard Size 90mm
- Synchro Flange or Clamp Flange mounting
- Robustness and excellent resistance to shocks / vibrations.
- High protection level IP65, IP67 option with a sealing flange
- Maximum pulses per turn 10 000 ppr
- Universal electronic circuits from 5 to 30 Vdc
- Short-circuit proof outputs



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	

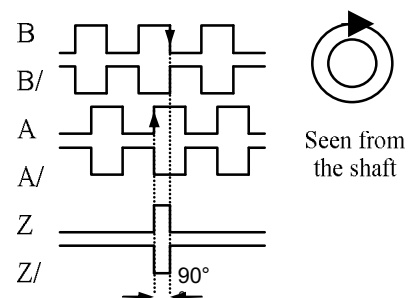
MECHANICAL CHARACTERISTICS

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	< 10 N cm
Maximum load permitted on shaft	Axial 100 N, Radial 200 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	0.8kg
Axial or radial connection	Cable 2 metres (other cable length available on order)

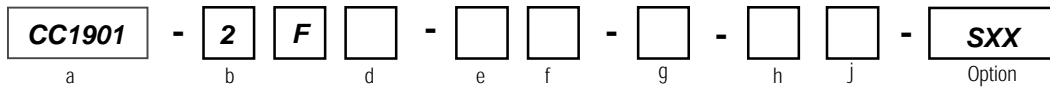
CONNECTION AND OUTPUT SIGNALS

Function	Cable Colour Code	Junction Box
0 Volt	white	1
+ Volt	brown	2
A	green	3
B	yellow	4
0	grey	5
A̅	pink	6
B̅	blue	7
0	red	8
Ground case	shielding	shielding

Output waveforms



ORDERING CODE



a **Series**
Incremental Encoder

b **Shaft Type**
2=full shaft

d **Shaft size**
11,12mm

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**
1024,2048,3600....

h **Connector Location**
2=Radial

j **Connection**
6= Cable
8= M23 Connector
9= Terminal Box

MECHANICAL DRAWINGS

Junction Box, Clamping bracket 115mm

