

INCREMENTAL ENCODER

- Optical Incremental encoder, Industry Standard Size 38mm
- 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 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	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	

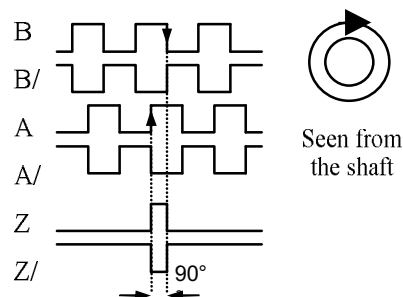
MECHANICAL CHARACTERISTICS

Housing	Aluminium
Shaft	Stainless Steel
Bearings	Ballraces
Maximum number of revolutions permitted mechanically	10 000rpm
Bearings lifetime	1x10 ¹⁰ rev
Rotor inertia moment	30 gcm ²
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	360g
Axial or radial connection	Cable 2 metres (other cable lenght available on order)

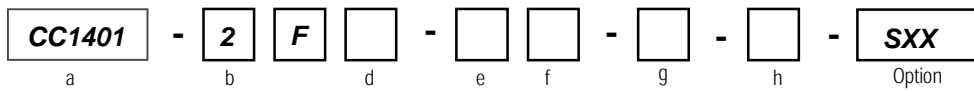
CONNECTION AND OUTPUT SIGNALS

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

Output waveforms



ORDERING CODE



- a **Series**
Incremental Encoder
- b **Shaft Type**
2=full 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**
1024,2048,3600....
- h **Connection**
M = Cable axial 2m

MECHANICAL DRAWINGS

Radial Cable exit 2m, Clamping bracket 40mm

