

## INCREMENTAL ENCODER

- Optical Incremental encoder, Industry Standard Size 25mm
- Robustness and excellent resistance to shocks / vibrations.
- High protection level IP65, IP67 option with a sealing flange
- Maximum pulses per turn 2500ppr
- 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	

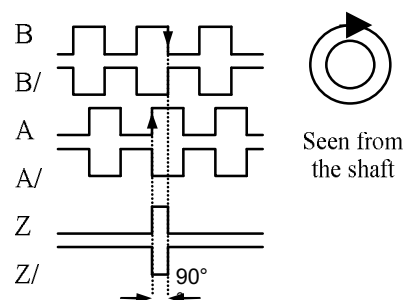
### MECHANICAL CHARACTERISTICS

Housing	Aluminium
Shaft	Stainless Steel
Bearings	Ballraces
Maximum number of revolutions permitted mechanically	10 000rpm
Bearings lifetime	1x10 <sup>10</sup> rev
Rotor inertia moment	30 gcm <sup>2</sup>
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	300g
Axial or radial connection	Cable 2 metres (other cable lenght available on order)

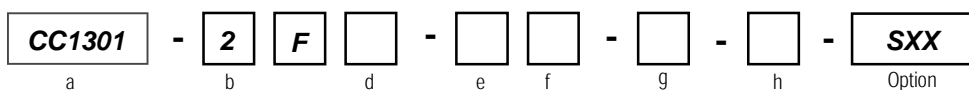
### CONNECTION AND OUTPUT SIGNALS

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

#### Output waveforms



## ORDERING CODE



- |  |   |
|--|---|
| <p><b>a Series</b><br/>Incremental Encoder</p> <p><b>b Shaft Type</b><br/>2=full shaft</p> <p><b>d Shaft size</b><br/>4 mm</p> <p><b>e Power supply</b><br/>2= 5Vdc<br/>6= 5-30Vdc</p> | <p><b>f Output circuit</b><br/>3 = Driver 5Vdc RS422 (TTL)<br/>5 = Push-Pull 5-30Vdc (HTL)</p> <p><b>g Pulse perRevolution</b><br/>1024,2048,3600....</p> <p><b>h Connection</b><br/>M = Cable axial 2m</p> |
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## MECHANICAL DRAWINGS

Radial Cable exit 2m, Clamping bracket 36.5mm

