INCREMENTAL ENCODER

- Sturdy model to Industry Standard,120mm housing
- Through hollow shaft 60mm with reduction hubs in aluminium of 38,40 and 45mm
- Easy mounting for the hollow shafts thanks to DAC (Anti-Coupling Device)
- Robustness and excellent resistance to shocks / vibrations.
- Maximum pulses per turn 8192 ppr
- 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)	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	

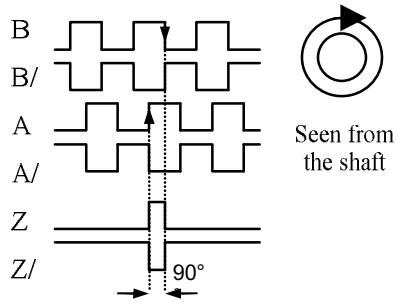
MECHANICAL CHARACTERISTICS

Housing	Aluminium
Shaft	Stainless Steel
Shaft fixation	Front or Rear clamp
Bearings	Ballraces
Maximum number of revolutions permitted mechanically	6000 rpm
Bearings lifetime	$1x10^{10}$ rev
Rotor inertia moment	80 gcm^2
Starting Torque	< 6 N cm
Maximum load permitted on shaft	Axial 80N, Radial 100N
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	900g

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
Ā	pink	6
B̄	blue	7
0̄	red	8
Ground case	shielding	shielding

Output waveforms



ORDERING CODE

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a		b		d		e	f		g		h	j		Option

a **Series**
Incremental Encoder

b **Shaft Type**
4=hollow shaft

d **Shaft size**
30,35,38,40,45,50 and 60mm

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**
2=Radial

j **Connection**
6= 2m Cable (standard)
8= M23 Connector

MECHANICAL DRAWINGS

Flange with spring plate, Radial Cable exit 2m