

CHARACTERISTICS

- Housing 95 mm
- □ Floating Bearing Assembly and Heavy Duty Design
- □ Shaft Bore Diameter from 15 to 30 mm
- □ Resolution 1024 ppr or 2048 ppr
- □ Supply Voltage 5 VDC

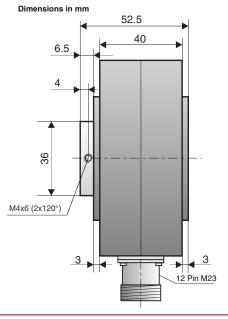
MECHANICAL SPECIFICATIONS					
Aluminum					
Stainless Steel					
6000 RPM					
$100 \cdot 10^{-6} \text{ kgm}^2$ (Bore Size D= 20mm)					
$96 \cdot 10^{-6} \text{ kgm}^2$ (Bore Size D = 25mm)					
> 0.04 Nm					
Axial 50 N, Radial 50 N					
≤ 1000 m/s²					
2000 Hz) ≤ 200 m/s² (Cable)					
≤ 100 m/s² (Plug)					
0529) IP 65					
-20° C to +70° C					
ca. 0.7 kg					

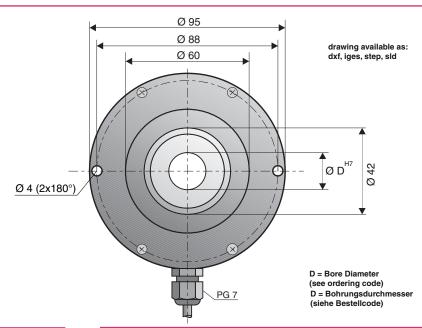






DIMENSIONS

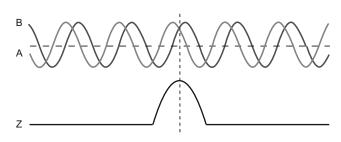




ELECTRICAL SPECIFICATIONS

Supply Voltage	5 VDC
Current Consumption (no load)	max. 40 mA
Output Circuit	Op-Amp
Pulse frequency	max. 100 kHz
Signal Level (high)	Vcc - 0.7 Volt
Signal Level (low)	max. 0.25 Volt
Short Circuit Protection	100%
Reverse polarity protection per channel	100%
Output-Signals	Sin/Cos 1Vpp

SIGNALS



A leads B in the Clockwise Direction (facing shaft) Complementary Signals are also available (see ordering code)

CONNECTIONS

Function	Cable Code	12 Pin M23 Plug	9 Pin Sub-D Plug	
GND	white	01	01	
Vcc	brown	02	02	
Α	green	03	03	
В	yellow	04	04	
Z	grey	05	05	
Ā	pink	06	06	
B	blue	07	07	
Z	red	08	08	

ORDERING CODE



- a Group Function
 SH = Sine-Cosine Hollow Shaft
- b **Basic Series Number** 950
- c Bore Diameter D selectable from 15 to 30 mm 15 = 15 mm, 18 = 18 mm, 25 = 25 mm
- d Mechanical Option 0 = None, 1 = Stainless Steel

- Resolution 1024 or 2048 ppr available
 - e Connection Type 0 = 2 m Cable , 7 = 12 Pin M23 Plug 6 = 9 Pin Sub-D Plug
 - f Connection Location R = Radial
 - g Output Signals I = A + B + Z (Sin/Cos) $C = A + B + Z + \overline{A} + \overline{B} + \overline{Z} (Sin/Cos)$
 - h Output Circuit Type / Supply Voltage $Q = Op\text{-}Amp \ 5 \ VDC$

* Notes:

Any special functions and design will be designated by a 4 digit code (Sxxx) at the end of the part number.

Consult our Office for your region for further details. If this encoder does not fit your need please also consult us for help.

FURTHER INFORMATION

Accessories:

Corresponding accessories, such as couplings, measuring wheels, display modules, extension cables etc., for this encoder can be found on our homepage www.globalencoder.com under "Accessories".

