IH 760

Incremental Hollow Shaft Encoder

CHARACTERISTICS

- ☐ Housing 76 mm
- ☐ Slim and compact Design
- ☐ Shaft Bore Diameter from 10 to 30 mm
- ☐ all Resolutions from 1 to 25.000 ppr
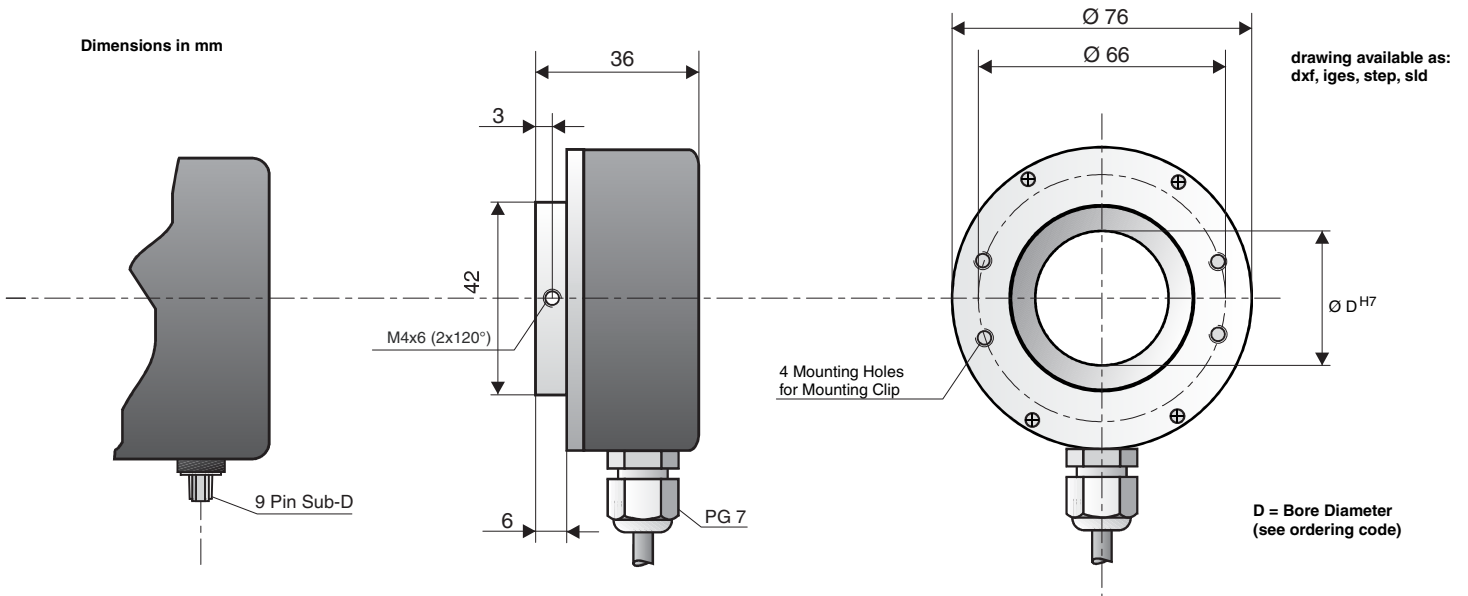- ☐ Supply Voltage 4.75 to 30 VDC

MECHANICAL SPECIFICATIONS

Cover & Body	Aluminum
Shaft	Stainless Steel
max. Speed	6000 RPM
Mass moment of inertia	$80 \cdot 10^{-6}$ kgm² *(Bore Size D = 15mm)*
	$100 \cdot 10^{-6}$ kgm² *(Bore Size D = 20mm)*
Starting Torque *(at 25°C)*	> 0.04 Nm
max. Loading on Shaft	Axial 40 N, Radial 40 N
Shock resistance *(6 ms)*	≤ 1000 m/s²
Vibration resistance *(55 - 2000 Hz)*	≤ 200 m/s² *(Cable)*
	≤ 100 m/s² *(Plug)*
Protection Rate *(DIN EN 60529)*	IP 65
Operating Temperature	-20° C to +70° C
Weight	ca. 0.5 kg

RoHS Compliant ✓   CE

DIMENSIONS

Dimensions in mm

36
3
42
M4x6 (2x120°)
9 Pin Sub-D
6
PG 7

Ø 76
Ø 66
Ø D H7
4 Mounting Holes for Mounting Clip

drawing available as: dxf, iges, step, sld

D = Bore Diameter (see ordering code)

ELECTRICAL SPECIFICATIONS

Supply Voltage	4.75 -30 VDC
Current Consumption *(no load)*	max. 40 mA
Output Circuit	Push-Pull, TTL, RS 422A compatible
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%
ESD (DIN EN 61000-4-2)	8kV
Burst (DIN EN 61000-4-4)	2 kV

SIGNALS

A
360°el
90°el ± 10%
B
Z
360°el
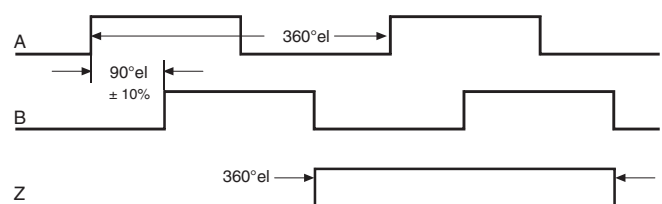
A leads B in the Clockwise Direction (facing shaft)
Complementary Signals are also available (see ordering code)

CONNECTIONS

Function	Cable Code	9 Pin Sub-D Plug	8 Pin M12 Plug
GND	white	01	01
Vcc	brown	02	02
A	green	03	03
B	yellow	04	04
Z	grey	05	05
$\overline{A}$	pink	06	06
$\overline{B}$	blue	07	07
$\overline{Z}$	red	08	08

ORDERING CODE

IH	760	-	☐	☐ ☐ ☐ ☐ ☐	-	☐ ☐ ☐ ☐ ☐	-	Sxxx*
a	b		c	d e f g h				

Resolution from 1 to 25.000 ppr available

a Group Function
IH = Incremental Hollow Shaft

b Basic Series Number
760

c Bore Diameter D
selectable from 10 to 30 mm
12 = 12 mm, 25 = 25 mm, 30 = 30 mm

d Mechanical Option
0 = None, 1 = Edelstahl

e Connection Type
0 = 2 m Cable
6 = 9 Pin Sub-D Plug
Q = 8 Pin M12 Plug

f Connection Location
R = Radial

g Output Signals
3 = A + B + Z
6 = A + B + Z + $\overline{A}$ + $\overline{B}$ + $\overline{Z}$

h Output Circuit Type / Supply Voltage
1 = TTL 5 VDC
3 = Push-Pull 4.75 to 30 VDC
5 = Push-Pull 8 to 30 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".