

CHARACTERISTICS

- □ Housing 58 mm
- Shaft Mounted
- Shaft Bore Diameter from 6 to 14 mm
- □ all Resolutions from 1 to 10.000 ppr
- □ Supply Voltage 4.75 to 30 VDC

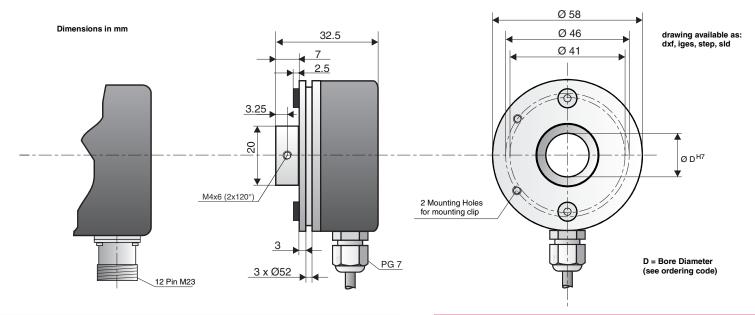
| MECHA | | CDECIE | ICATIONS |
|-------|-------|---------|----------|
| WELTA | NICAL | SPECIFI | CALIUNS |

| MEGNATIOAL OF LOW TOATTO | 7110 |
|------------------------------|---|
| Cover & Body | Aluminum |
| Shaft | Stainless Steel |
| max. Speed | 6000 RPM |
| Mass moment of inertia | $95 \cdot 10^{-6} \text{ kgm}^2$ (Bore Size D=10mm) |
| _ | $85 \cdot 10^{-6} \text{ kgm}^2$ (Bore Size D = 12mm) |
| Starting Torque (at 25°C) | > 0.04 Nm |
| max. Loading on Shaft | Axial 20 N, Radial 15 N |
| Shock resistance (6 ms) | ≤ 1000 m/s² |
| Vibration resistance (55 - 2 | 2000 Hz) ≤ 200 m/s² (Cable) |
| | ≤ 100 m/s² (Plug) |
| Protection Rate (DIN EN 60 | <i>0529)</i> IP 65 |
| Operating Temperature | -20° C to +70° C |
| Weight | ca. 0.5 kg |
| | |



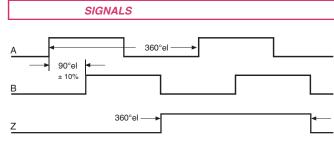


DIMENSIONS



ELECTRICAL SPECIFICATIONS

| Supply Voltage | | 4.75 -30 VDC |
|-----------------------------|-----------------|--------------------|
| Current Consumption (no | o 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 | n per channel | 100% |
| ESD (DIN EN 61000-4-2) | | 8kV |
| Burst (DIN EN 61000-4-4 |) | 2 kV |



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

CONNECTIONS

| Function | Cable Code |
|----------|---------------|
| GND | white |
| Vcc | brown |
| Α | green |
| В | yellow |
| Z | grey |
| Ā | pink |
| B | blue |
| Z | red |

ORDERING CODE

ΙH 580 а Resolution from 1 to 10.000 ppr available

- a Group Function IH = Incremental Hollow Shaft
- **Basic Series Number** 580
- c Bore Diameter D selectable from 6 to 14 mm 06 = 6 mm, 09 = 9 mm, 12 = 12 mm
- **Mechanical Option** 0 = None

Sxxx*

- e Connection Type 0 = 2 m Cable, 1 = 4 m Cable
- **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".

