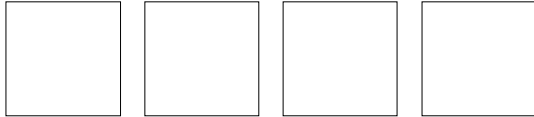


Incremental-Encoder IH-76 (Type 0500)



- **Hollow Shaft Encoder for Direct Coupling to any Drive Shaft (I.D. = 6 ... 16 mm)**
- **Number of Pulses per Revolution Up To 10 000**

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Electrical Data

Supply Voltage.....	11-27 V DC
5 V DC	Upon Request
Output (11-27 V).....	Push-Pull
Maximum Current.....	max. 20 mA
Incremental Signal.....	A, A neg., B, B neg.
Marker Pulse	Z, Z neg., 1 pulse per revolution
Maximum Output Frequency	160 kHz
Output (5 V).....	Line Driver
Maximum Current.....	max. 20 mA
Incremental Signal.....	A, A neg., B; B neg.
Marker Pulse	Z, Z neg., 1 pulse per revolution
Maximum Output Frequency	300 kHz
Tolerance (at 20 kHz)	
Phase Shift.....	±10°
Pulse Width.....	±10°
Tolerance (at 100 kHz)	
Phase Shift.....	±30°
Pulse Width.....	±30°
Pulses per Revolution	1 to 10 000
Option	Sinusoidal Signal, 160 kHz (-3dB), voltage or current source 5 or 10 times the base PPR is possible. (i.e. 50000 or 100000 PPR)

Environmental Data

Electromagnetic compatibility (EMC)	EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Operating Temperature.....	0° to 80°C (32° F to 176° F)
Extended Temperature (Optional).....	-30° to +80°C (-22° to 176°F)
Relative Humidity	98 % (non condensing)

Mechanical Data

Maximum Rotational Speed.....	6000 RPM
Weight.....	0.5 kg (1.1 lb.)
Maximum Angular Acceleration.....	$\leq 10^5 \text{ rad/s}^2$
Momentum of Inertia.....	$60 \times 10^{-6} \text{ kg m}^2$
Startup Momentum 20°C (68° F).....	0.08 Ncm
Vibration (50-2000 Hz Sinusoidal)	
DIN IEC 68-2-6.....	$\leq 100 \text{ m/s}^2$ (10g)
Shock (11ms) DIN IEC 68-2-27.....	$\leq 1000 \text{ m/s}^2$ (100g)
* Standard Connector.....	PG 9 radial cable (pigtail)

* Different Cable Lengths on Request.

Dimensional Drawing

