

Incremental-Encoder IH 76 (Type 0503)

TR-VCE-TI-GB-0630

04/12 Revision 03

010101-00769999-9999



- + Incremental interface
- + Type with hollow through shaft for direct coupling to any drive shaft (\varnothing 16 ... 28 mm)
- + Number of pulses per revolution up to 10 000

Characteristics

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	$\pm 10^\circ$
- Pulse Width.....	$\pm 10^\circ$
Tolerance (at 100 kHz)	
- Phase Shift	$\pm 30^\circ$
- Pulse Width.....	$\pm 30^\circ$
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)
Maximum Rotational Speed	6000 RPM
Maximum Angular Acceleration.....	≤ 105 rad/s ²
Momentum of Inertia	60 x 10 ⁻⁶ kg m ²
Startup Momentum 20°C (68° F)	approx. 0.08 Nm
Standard Connector	radial cable (pigtail), different cable lengths on request
Weight	0.4 kg (0.9 lb.)

Environmental conditions

Vibration, DIN EN 60068-2-6: 1996	$\leq 100 \text{ m/s}^2$, sine 20-2000 Hz
Shock, DIN EN 60068-2-27: 1995.....	$\leq 1000 \text{ m/s}^2$, half-sine 11 ms
EMC	
- Immunity to disturbance, DIN EN 61000-6-2: 2006	
- Transient emissions, DIN EN 61000-6-3: 2007	
Operating Temperature	0° to 80°C (32° F to 176° F)
Extended Temperature (Optional)	-30° to +80°C (-22° to 176°F)
Relative humidity, DIN EN 60068-3-4: 2002	98 %, non condensing
Protection class, DIN EN 60529: 1991 *)	IP 64

*) valid with screwed on mating connector and / or screwed together cable gland

Dimension drawing

(For project planning please request customized dimensional drawing!)

