

Only 16mm in diameter and up to 5000 ppr. -True lines.
 Up to 20000 Counts



CHARACTERISTICS

| | |
|--------------------------|---|
| ENCODER TYPE | Micro hollow shaft encoder (blind end hollow shaft) |
| SMD - TECHNOLOGY | Strong compact electronics |
| HIGH IP-RATING | Std. IP 64 (with IDC; IP 50) |
| LOW CURRENT CONSUMPTION | To be connected directly to PLC'S and counters |
| SHORT CIRCUIT PROTECTION | Thermal shut down at 155°C |
| POWER SUPPLY | 5 volts to 12 Volts ± 10% (TTL) (on request up to 24 Volts) |
| STRONG MEC. CONSTRUCTION | Based on 2 precision ball bearings for industrial environment |

ELECTRICAL SPECIFICATIONS

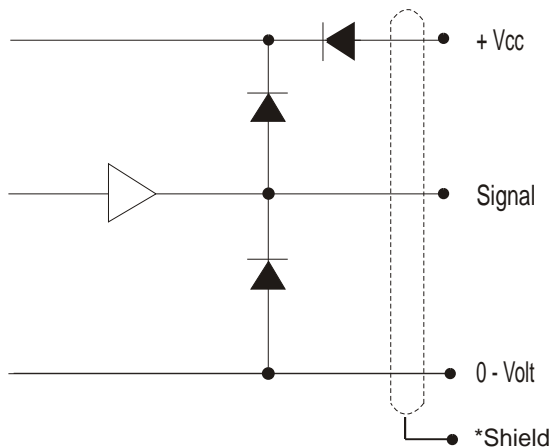
| At +25°C | |
|----------------------|---|
| Output | Totempole |
| Output waveform | Incremental (A, B) |
| Zero or index pulse | (Z) one pr./rev. |
| Supply-voltage | 5 to 12 V (on request up to 24 Volts) |
| Current (no load) | 35mA |
| Max. load pr. output | 20mA (Short circuit protected) |
| V out low | Max. 500 mV at I out low = 10 mA |
| Operating temp. | -20°C to +70° C |
| Storage temp. | -20° C to +85°C |
| Max. pulse frequency | 200 kHz |
| V out high | Min. (Vin -0,6) @ I = -10mA Min. (Vin -1,3) @ I = -25mA |
| Cable data | 8-leads (0.05 mm ²) shielded or 10-leads flat band cable 0.10mm ² |
| Output signals | Differential (RS-422A compatible) |
| Certified acc. To | EN 50081-1 and EN 50082-2* |

*NA with flat band cable

MECHANICAL SPECIFICATIONS

| | |
|-----------------------|-------------------------------------|
| Weight, excl. Cable | About 15 g |
| Materials: | |
| Housing | Brass / Aluminum |
| Shaft | Brass |
| Bearings | Lifetime lubricated ball-bearings |
| Fixing clamp | Brass |
| H.-Shaft dimensions | ø1.5mm - ø2mm - ø3mm - 1/8" |
| H.-Shaft loads | Axial max. 10 N Radial max. 10 N |
| Max speed | 12.000 rev./min. |
| IP-rating | IP 64 (with IDC; IP 50) |
| Start torque | <0,005 Nm at 25°C |
| Massmoment of inertia | 0.25 gcm ² |
| Max. shock | 100 G/11 ms. |
| Bump | 10 G - 16 ms (1000 x 3axis) |
| Vibration | (10 - 2000 Hz)/10 G |

OUTPUT CIRCUIT



*Shield connected to housing

MECHANICAL DIMENSIONS

