



Axial up to 100 N, Radial up to 100 N



IP 66

CHARACTERISTICS

ENCODER CATEGORY	Shaft encoder
SMD - TECHNOLOGY	Strong compact electronics
HIGH IP-RATING	Std. IP 66
LOW CURRENT CONSUMPTION	To be connected directly to PLC'S and counters
SHORT CIRCUIT PROTECTION	Thermal shut down at 155°C
WIDE SUPPLY RANGE	Min. 4,5 to max. 30V
RUGGED MEC. CONSTRUCTION	Based on 3 precision ball bearings, for harsh industrial environments

ELECTRICAL SPECIFICATIONS

At +25°C	
Output waveform	Incremental (A, B, Z and inverted)
Zero- or index pulse	(Z) one pr./rev.
Output circuit	Totempole (TP)
Supply-voltage (Vin)	Min 4,5V to Max. 30V * Reverse polarity protection
Current (no load)	Max. 45 mA
Max. load pr. output	30 mA - (Short circuit protected) *
V out low	Max. 500 mV @ I = 10mA
Operating temp.	- 40°C to + 85°C
Storage temp.	- 40°C to + 85°C
Max. pulse frequency	300 kHz *
V out high	Min. (Vin -0,6) @ I = -10mA Min. (Vin -1,3) @ I = -25mA
Output signals	Normal (Standard) Differential (RS-422A compatible @ 5V)
Certified acc. to	EN 50081-1 and EN 50082-2

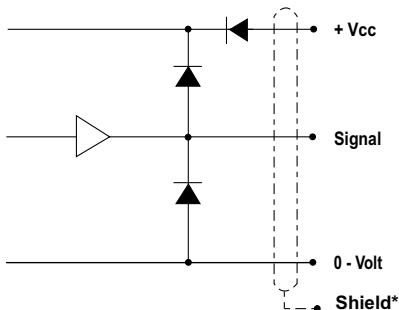
* = It is not recommended to combine max. value for all 3 parameters

MECHANICAL SPECIFICATIONS

Weight	About 575 g (+ cable 60 g/meter)
Materials :	Housing Anodized aluminum / aluminum Shaft Stainless steel Bearings Lifetime lubricated ball bearings
Shaft dimensions	11 mm (Standard) x 30
Shaft loads	Axial max. 100 N Radial max. 100 N
Max. rev.	5.000 rev./min.
IP-rating	Standard IP 66
Starting torque	<0,1 Nm at 25°C
Mass moment of inertia	8 gcm ²
Max. shock*	100 G/11 ms
Bump*	10 G - 16ms (1000 x 3 axis)
Vibration*	(10 - 2000 Hz) /10 G

* Data for encoder without connector

OUTPUT CIRCUIT



*Shield connected to housing

MECHANICAL DIMENSIONS

