

Data sheet for Incremental encoder

Article No. : 6FX2001-2CC00

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :



Figure similar

Electrical data

Operating voltage Up	DC 5 V +- 10%
Max. power consumption without load	150 mA
Signal level	TTL (RS 422)
Resolution	2,000 S/R
Accuracy	32 rad
Sampling frequency, max.	300 kHz
Switching time (10 ... 90 %)	≤ 50 ns
	Rise / fall time t+/t- <=
Phase relation signal A to B	90 °
Edge clearance at 300 kHz	0.45 μs
LED failure monitoring	High impedance driver

Cable length

To the downstream electronics, max. 100 m

Ambient temp in operation

Fixed installation of flange outlet or cable

- At Up = 10V ... 30V -40 ... 100 °C

Flexible cable

- At Up = 10V ... 30V -10 ... 100 °C

Ambient temp in operation

Fixed installation of flange outlet or cable

- At Up = 10V ... 30V ... °C

Flexible cable

- At Up = 10V ... 30V ... °C

Standards

Compliance with standards	CE, cULus
EMC class filter	Tested according to the EMC guidelines 89/336/EEC and the rules of the EMC guidelines (generic standards)

Mechanical data

Shaft diameter	6 mm
Shaft length	10 mm
Angular acceleration, max.	100,000 rad/s ²
Rotor moment of inertia	0.00000145 kgm ²
Vibration (55...2000 Hz), max.	300 m/s ²
Friction torque (at 20°C)	0.01 Nm
Starting torque (at 20°C)	0.01 Nm
Net weight	0.3 kg

Max. admissible speed

Electrical	9,000 rpm
Mechanical	12,000 rpm

Load capacity

n ≤ 6000 rpm

- Axial 40 N

- Radial at shaft end 60 N

n > 6000 rpm

- Axial 10 N

- Radial at shaft end 20 N

Shock, max.

2 ms 2,000 m/s²

6 ms 1,000 m/s²

Degree of protection

At housing IP67

At shaft input IP64