



Encoder,6FX2001-5FP12

URL:https://www.sxplc.com/encoder-6fx2001-5fp12

Product data sheet

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Electrical data		Mechanical data	
Operating voltage Up	DC 10 30 V	Shaft version	Solid shaft
Max. power consumption	100 300 mA (2.5 W)	Shaft diameter	6 mm
Interface	PROFIBUS DP-V2	Shart diameter	o i i i i
Clock input	Differential line receiver according to EIA Standard RS 485	Shaft length	10 mm
		Angular acceleration, max.	100000 rad/s ²
Data output	Differential line driver according to EIA Standard RS 485	Moment of inertia of rotor	0.00000190 kgm²
Short-circuit strength	Yes	Vibration (552000 Hz), max.	100 m/s ²
Transmission rate	12 Mbit/s	Friction torque (at 20°C)	<= 0.01 Nm
LED for diagnostics	Yes (green/red)	Starting torque (at 20°C)	<= 0.01 Nm
Number of nodes	99	Net weight	0.4 kg
Number of nodes	99	Speed max.	
Connection type	Terminal block with address selector switch and bus terminating resistor in removable cover with radial cable glands (3 units), Radial	With ± 1 bit accuracy	5800 rpm
		Max. permissible speed (mech.)	12000 rpm
		Load capacity	
Cable diameter	6.5 mm 9.0 mm, Tube dismantling possible without bus interruption	n <= 6000 rpm	
		- Axial	40 N
Resolution	13 bit, (8192 increments)	- Radial at shaft end	110 N
	,	n > 6000 rpm	
Telegram	According to PNO cncoder profile V4.1 Class1, Class 2, Class 3, standard telegram 81	- Axial	10 N
		- Radial at shaft end	20 N
Cable length up to the subsequent electronics, max.		Shock, max.	
Up to 93.75 kbit/s	1200 m	2 ms	2000 m/s ²
Up to 1.5 Mbit/s	200.0 m	6 ms	1000 m/s ²
Up to 12 Mbit/s	100.0 m	Degree of protection	
Code type		Without shaft input	IP67
Sampling	Gray	With shaft input	IP64
Transmission	binary, PROFIBUS		



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