

EXC-8001/1024

Direct Replacement Encoder For Siemens 1XP8001

Encoder Connection

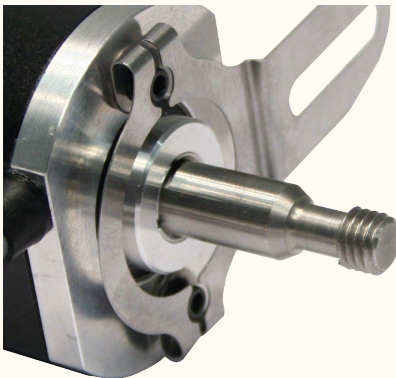
www.encoderconnection.com



Designed as a drop in replacement for the Siemens 1XP8001 encoder, the EXC is ready for delivery. The unique threaded shaft made this encoder hard to find, but now it is a standard order. Configurations can be with either 1024 or 2048 CPR, with a 12 pin connector with 18" of extra cable. Save time and money looking for a replacement encoder; The EXC-8001/1024 is the perfect solution!

Price: \$565.00 US Dollars *Ships Worldwide

Order: Encoder Connection (828) 449-8548 US



Order Number	CPR
EXC-8001/1024	1024
EXC-8001/2048	2048

The Encoder Connection EXC-8001:

- Low profile (1.19") encoder body
- 2 piece construction; shaft screws into motor, then encoder attaches to shaft
- 1024 and 2048 CPR available
- Line Driver output
- Flex Arm mounting system makes installation easy and allows for insulation and isolation from vibration
- 12-pin connector at the end of 18" of cable
- Advanced Opto-ASIC technology for superior noise immunity
- Withstands temperatures up to 100C



Direct Replacement Encoders

EXC-8001

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Model EXC-8001 Specifications

Electrical

Input Voltage..... 4.75 to 28 VDC (16 VDC Max at 100)
Input Current..... 100 mA max with no output load
Output Format..... Incremental- Two square waves in quadrature with channel A leading B for clockwise shaft rotation, as viewed from the mounting face. See Waveform Diagram below.
Output Types..... Line Driver- 20 mA max per channel (Meets RS 422 at 5 VDC supply)
Freq. Response..... 200 kHz standard
Noise Immunity... Tested to BS EN61000-6-2; BS EN50081-2; BS EN61000-4-2; BS EN61000-4-3; BS EN61000-4-6, BS EN55011
Symmetry..... 180° (±18°) electrical
Quad. Phasing..... 90° (±22.5°) electrical
Min. Edge Sep..... 67.5° electrical
Accuracy..... Within 0.01° mechanical from one cycle to any other cycle, or 0.6 arc minutes

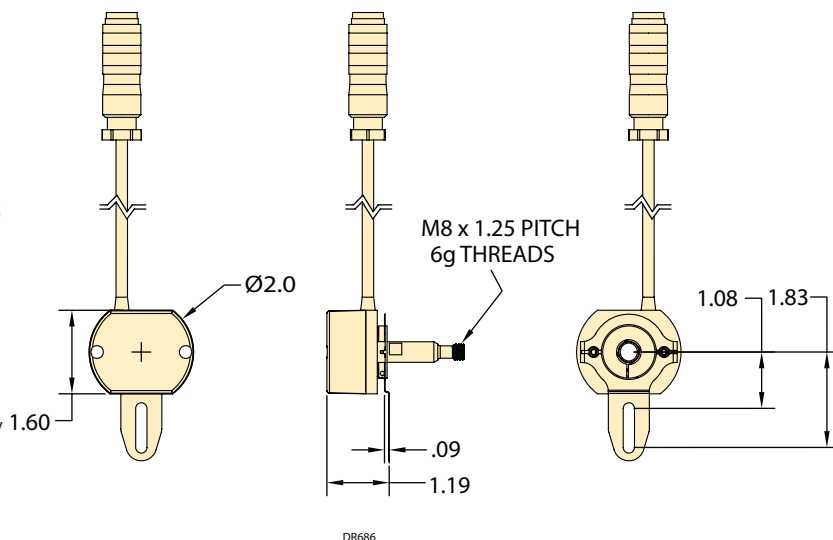
Mechanical

Max Shaft Speed.. 7500 RPM
User Shaft Tolerances
Radial Runout.. 0.007" max
Axial Endplay.... ±0.030" max
Starting Torque.... 0.50 oz-in
Moment of Inertia 3.9 X 10⁻⁴ oz-in-sec²
Max Acceleration. 1 X 10⁵ rad/sec²
Electrical Conn..... 18" cable (foil and braid shield, 24 AWG conductors) with 12-pin connector
Housing..... Black non-corrosive finish
Mounting..... Flex Arm Mount standard
Weight..... 3.5 oz typical

Environmental

Operating Temp.... 0° to 100°C
Storage Temp..... -40° to +100° C
Humidity..... 98% RH non-condensing
Vibration..... 10 g @ 58 to 500 Hz
Shock..... 50 g @ 11 ms duration
Sealing..... IP50

EXC-8001 Dimensions



EXC-8001 Wiring Table

EXC-8001 WIRING	
PIN	FUNCTION
A	CHANNEL B'
B	+VDC
C	CHANNEL Z
D	CHANNEL Z'
E	CHANNEL A
F	CHANNEL A'
G	+VDC
H	CHANNEL B
J	N/C
K	COMMON
L	COMMON
M	+VDC

EXC-8001 Waveform Diagram

