

SINAMICS MOTION FEEDBACK SYSTEMS

Product Data Sheet

6FX2001-5FN13

Single-turn PROFINET absolute encoder

FUNCTION	FAMILY	ORIGIN	WEIGHT
Single-turn PROFINET absolute encoder	SINAMICS motion feedback systems	Germany	0.54 kg

Siemens SINAMICS 6FX2001-5FN13 is a single-turn PROFINET absolute encoder for the SINAMICS motion feedback systems. The values below are limited to the exact documented article.

01

VERIFIED TECHNICAL DATA

Encoder Design	Single-turn absolute encoder
Communication Interface	PROFINET IO with RT / IRT
Encoder Resolution	13 bit (8192 increments)
Resolution per Revolution	1 to 8192 programmable
Supply Voltage	10 to 30 V DC
Network Ports	2 × M12, 4-pin
Supply Connector	1 × M12, 4-pin
Transmission Rate	100 Mbit/s
Code Sampling	Gray code
Shaft Diameter	6 mm

ADDITIONAL PRODUCT DATA

Shaft Length	10 mm
Maximum Mechanical Speed	12000 rpm
Housing Protection	IP67
Shaft Input Protection	IP64
Operating Temperature	-40 to +85 °C

OFFICIAL APPLICATIONS

- Robotic assembly and transfer axes: Motion Control Systems
- CNC and packaging machinery: Machine Control Systems
- Automated conveyors and crane drives: Position Feedback Systems

SYSTEM COMPATIBILITY

Match 6FX2001-5FN13 to the installed SINAMICS motion feedback systems, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[Siemens 6FX2001-5FN13 absolute encoder technical data sheet](#)

<https://support.industry.siemens.com/teddatasheet/?caller=SIOS&format=pdf&language=en&mlfbs=6FX2001-5FN13>

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