

SINAMICS MOTION FEEDBACK SYSTEMS

Product Data Sheet

6FX2001-5FN25

PROFINET absolute encoder

FUNCTION PROFINET absolute encoder	FAMILY SINAMICS motion feedback systems	ORIGIN Germany	WEIGHT 0.43 kg
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Siemens SINAMICS 6FX2001-5FN25 is a PROFINET absolute encoder for the SINAMICS motion feedback systems. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Supply Range	10 to 30 V DC
Network Protocol	PROFINET IO RT/IRT
Integrated Switch	2-port IRT
Network Rate	100 Mbit/s
Network Ports	2 × M12 4-pin
Supply Connector	1 × M12
Shaft Diameter	6 mm
Shaft Length	10 mm
Encoder Resolution	30 bit
Single-turn Steps	8192 per revolution

ADDITIONAL PRODUCT DATA

Maximum Acceleration	100000 rad/s ²
Rotor Inertia	0.0000019 kgm ²
Housing Protection	IP67
Shaft Protection	IP64
Operating Temperature	-40 to +85 °C

OFFICIAL APPLICATIONS

- Body assembly and inspection automation: Factory Automation Systems
- Compression and pipeline process control: Hydrocarbon Control Systems
- Batching and packaging line automation: Production Control Systems

SYSTEM COMPATIBILITY

Match 6FX2001-5FN25 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 official product documentation](#)

<https://sieportal.siemens.com/en-ww/products-services/detail/6FX2001-5FN25>

AMIKON PRODUCT SUPPORT

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