

SIMATIC S7-300

Product Data Sheet

6ES7331-7RD00-0AB0

SM 331 intrinsically safe analog input

FUNCTION SM 331 intrinsically safe analog	FAMILY SIMATIC S7-300	ORIGIN Germany	WEIGHT 0.80 kg
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S7-300 6ES7331-7RD00-0AB0 is a SM 331 intrinsically safe analog input for the SIMATIC S7-300. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Analog Inputs	4
Signal Range	0/4 to 20 mA
Channel Isolation	Intrinsically safe inputs
Product State	17 or later
ATEX Gas Approval	II 3 G (2) G Ex ec [ib Gb] IIC T4 Gc
ATEX Dust Approval	II 3 G (2) D Ex ec [ib IIIC Db] IIC T4 Gc
IECEX Approval	Ex ec [ib Gb] IIC T4 Gc
Front Connector	20-pin
Flexible Wire Range	0.25 to 1.5 mm ²
Tightening Torque	0.4 to 0.8 Nm

- Fermentation and bottling process lines: Material Handling Systems
- Filtration and disinfection stations: Safety Interlock Systems
- Generator cooling and switchyard systems: Machine Control Systems

Match 6ES7331-7RD00-0AB0 to the installed SIMATIC S7-300, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[Siemens official manufacturer documentation](#)

<https://support.industry.siemens.com/>