

Datasheet for

SIPART PS2 Smart, electropneumatic positioner, 4...20mA, Ex/nEx, single-acting, aluminum enclosure, flameproof (Ex d), for pneumatic linear and part-turn actuators. Non-contacting (wear-free) position detection (NCS).

Ordering data: 6DR50150EN010AA0

	General
Manufacturer	Siemens
Supplier	Siemens
Product designation	Electropneumatic positioner
Brand name	SIPART PS2
Type designation	SIPART PS2 Smart, electropneumatic positioner, 420mA, Ex/nEx, single-acting, aluminum enclosure, flameproof (Ex d), for pneumatic line and part-turn actuators. Non-contacting (wear-free) position detection (NCS).
Net weight	5.2 kg
Slogan	One that masters everything: SIPART PS2

Input

Analog input

Signal range at the analog input 4 ... 20 mA

Operating conditions

Degree of protection

IP rating IP66
NEMA Enclosure Type NEMA 4X

Electromagnetic compatibility EMC

Standard for EMC

The appropriate directives and standards applied, including the relevant versions, can be found in the EC Declaration of Conformity on the Siemens Internet pages.

Structural Design

Mechanical design

Design of the positioner single-acting

Rotation angle of the part-turn actuator 15 Degree...160 Degree

Stroke range of the linear actuator 3 mm...130 mm

Material

Enclosure

Material aluminum
Material number according to DIN EN 10027-2 3.2581

Mounting

Mounting kit for linear actuator

Using mounting kit 6DR4004-8V and where necessary with an additional lever arm 6DR4004-8L on actuators according to IEC 534-6 (NAMUR) with

ribs, bars or flat face

Mounting kit for part-turn actuator "Using mounting kit 6DR4004-8D on actuators with mounting plane

according to VDI/VDE 3845 and DIN 3337: The required mounting console has to be provided on the actuator side; shaft with groove and female

Page 1 of 2

Type of the assembly With a suitable mounting kit, depending on use as a linear actuator or a

part-turn actuator and process environment

Design of connection for actuating pressure 1/4"-18 NPT

Electrical connections

Connection technology 2-wire connection

Design of the cable entry 1/2"-14 NPT

Design of the electrical connection screw terminals 2.5 AWG28-12

Design of the electrical confilection Sciew terminals 2.3 AWG20-12

This is only an extract from the technical data. For more details, see the FI 01 catalog or the Industry Mall. Creation date: 02/02/2025



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Power supply			
Type of the auxiliary power supply	pneumatical		
Pneumatic			
Operating medium	Compressed air, natural gas (purified), Nitrogen		
Operating pressure of the supply air (maximum)	7 bar		
Compressed air purity class for total oil according to ISO 8573-1	Class 2		
Compressed air purity class for humidity and liquid water	Class 2		
Compressed air purity class for particles according to ISO 8573-1	Class 2		
Air consumption	0.01 m³/h		
Certificates and approvals			
EC declaration of conformity	The appropriate directives and standards applied, including the relevant versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.		
Pressure device category according to PED 97/23/EC	Article 3.3		
Fluid group according to PED 97/23/EG	gas group 1		
Reliability (MTBF)			
MTBF	359 a		
Standard for MTBF	SN 29500		
Determination procedure	number of registered failures		
Applicability	positioner		
Explosion protection			
Ex-marking (IECEx & ATEX)	Ex tb IIIC T100 °C Db		
Ex-marking (IECEx & ATEX)	Ex db IIC T6T4 Gb		
Ex-marking (IECEx & ATEX)	II 2 D Ex tb IIIC T100 °C Db		
Ex-marking (IECEx & ATEX)	II 2 G Ex db IIC T6T4 Gb		
Ex-marking (IECEx & ATEX)	T100 °C		
Ex-Marking 8	T100 °C		

The information provided in this data sheet contains descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.

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