

#### **Datasheet for**

SIPART PS2 Smart, electropneumatic positioner, 4...20mA, Ex/nEx, single-acting, SST enclosure, no window, for pneumatic linear and part-turn actuators. Non-contacting (wear-free) position detection (NCS).

Ordering data: 6DR50120DN130AA3

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, SST enclosure, no window, for pneumatic linear and part-tur actuators. Non-contacting (wear-free) position detection (NCS).	
Net weight	4.265 kg	
Slogan	One that masters everything: SIPART PS2	

#### Input

## **Analog input**

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

#### **Operating conditions**

#### **Environmental conditions**

Ambient temperature during operation -30 °C...+80 °C

## **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 30 Degree...100 Degree

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

#### Material

#### **Enclosure**

Material	stainless steel
Material number according to DIN EN 10027-2	1.4581
Material number according to AISI	316Ti

## 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

thread M6"

With a suitable mounting kit, depending on use as a linear actuator or a part-turn actuator and process environment

1/4"-18 NPT

#### **Electrical connections**

Design of connection for actuating pressure

Type of the assembly

Connection technology 2-wire connection
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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Design of the cable entry	1/2"-14 NPT	
Design of the electrical connection	screw terminals 2.5 AWG28-12	
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 Siemens	

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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 ec IIC T6T4 Gc
Ex-marking (IECEx & ATEX)	Ex tb IIIC T100 °C Db
Ex-marking (IECEx & ATEX)	II 3 G Ex ec IIC T6T4 Gc
Ex-marking (IECEx & ATEX)	II 2 D Ex tb IIIC T100 °C Db

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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