

Datasheet for

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

Ordering data: 6DR50100NM120BA3

	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, polycarbonate enclosure, for pneumatic linear and part-turn actuators. Non-contacting (wear-free) position detection (NCS).
Net weight	1.265 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 polycarbonat, glass-fiber reinforced (PC)

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 $\frac{1}{2}$

thread M6"

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 M20 x 1.5

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 humidity and liquid water	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 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	

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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