## SIEMENS

## 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: 6DR50100EM120AA3

	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 Siemen Internet pages.
	Structural Design
Aechanical design	
Design of the positioner	single-acting
Rotation angle of the part-turn actuator	30 Degree100 Degree
Stroke range of the linear actuator	3 mm130 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) wit 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"
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	2 wire connection
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* 

## SIEMENS

## 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:	6DR50100EM120AA3
----------------	------------------

Power supply		
Type of the auxiliary power supply	pneumatical	
neumatic		
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 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	
eliability (MTBF)		
MTBF	359 a	
Standard for MTBF	SN 29500	
Determination procedure	number of registered failures	
Applicability	positioner	
xplosion protection		
Ex-marking (IECEx & ATEX)	Ex ia IIC T6T4 Gb	
Ex-marking (IECEx & ATEX)	Ex ic IIC T6T4 Gc	
Ex-marking (IECEx & ATEX)	II 2 G Ex ia IIC T6T4 Gb	
Ex-marking (IECEx & ATEX)	II 3 G Ex ic IIC T6T4 Gc	

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.