SIEMENS

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:	6DR50120NG210AA0
----------------	------------------

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	3.9 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	
Mechanical 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		
	ataislaga ataol	
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	
mounting kit for intear actualor	lever arm 6DR4004-8L on actuators according to IEC 534-6 (NAMUR) wit ribs, bars or flat face	
Mounting kit for part-turn actuator		
-	ribs, bars or flat face "Using mounting kit 6DR4004-8D on actuators with mounting plane according to VDI/VDE 3845 and DIN 3337: The required mounting consol has to be provided on the actuator side; shaft with groove and female	
Mounting kit for part-turn actuator	 ribs, bars or flat face "Using mounting kit 6DR4004-8D on actuators with mounting plane according to VDI/VDE 3845 and DIN 3337: The required mounting consol 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 	
Mounting kit for part-turn actuator Type of the assembly	 ribs, bars or flat face "Using mounting kit 6DR4004-8D on actuators with mounting plane according to VDI/VDE 3845 and DIN 3337: The required mounting consol 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 	

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: 03/04/2025*

SIEMENS

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).

dering data: 6DR50120NG2 ²	10AA0	
Design of the cable entry	M20 x 1.5	
Design of the electrical connection	screw terminals 2.5 AWG28-12	
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 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 Siemer 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	

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.