## 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).

6DR50100EN020BA3

	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
nalog input	
Signal range at the analog input	4 20 mA
	Operating conditions
nvironmental conditions	
Ambient temperature during operation	-30 °C+80 °C
egree of protection	
IP rating	IP66
NEMA Enclosure Type	NEMA 4X
lectromagnetic 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.
Standard for EMC	versions, can be found in the EC Declaration of Conformity on the Siemen
	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.
lechanical design	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages. Structural Design
lechanical design Design of the positioner	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages. Structural Design single-acting
<b>lechanical design</b> Design of the positioner Rotation angle of the part-turn actuator	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages. Structural Design
Iechanical design Design of the positioner Rotation angle of the part-turn actuator Stroke range of the linear actuator	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.  Structural Design single-acting 30 Degree100 Degree
Iechanical design Design of the positioner Rotation angle of the part-turn actuator Stroke range of the linear actuator Material	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.  Structural Design single-acting 30 Degree100 Degree
Iechanical design Design of the positioner Rotation angle of the part-turn actuator Stroke range of the linear actuator Material Enclosure	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.  Structural Design single-acting 30 Degree100 Degree 3 mm130 mm
Iechanical design Design of the positioner Rotation angle of the part-turn actuator Stroke range of the linear actuator Material Enclosure Material	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.  Structural Design single-acting 30 Degree100 Degree
Iechanical design Design of the positioner Rotation angle of the part-turn actuator Stroke range of the linear actuator Material Enclosure	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.  Structural Design single-acting 30 Degree100 Degree 3 mm130 mm polycarbonat, glass-fiber reinforced (PC) Using mounting kit 6DR4004-8V and where necessary with an additional lever arm 6DR4004-8L on actuators according to IEC 534-6 (NAMUR) wit
Iechanical design Design of the positioner Rotation angle of the part-turn actuator Stroke range of the linear actuator Material Enclosure Material Mounting	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.  Structural Design single-acting 30 Degree100 Degree 3 mm130 mm polycarbonat, glass-fiber reinforced (PC)
Iechanical design Design of the positioner Rotation angle of the part-turn actuator Stroke range of the linear actuator Material Enclosure Material Mounting Mounting kit for linear actuator	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.         Structural Design         single-acting         30 Degree100 Degree         3 mm130 mm         polycarbonat, glass-fiber reinforced (PC)         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         "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
Iechanical design         Design of the positioner         Rotation angle of the part-turn actuator         Stroke range of the linear actuator         Material         Enclosure         Material         Mounting kit for linear actuator         Mounting kit for part-turn actuator	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.         Structural Design         single-acting         30 Degree100 Degree         3 mm130 mm         polycarbonat, glass-fiber reinforced (PC)         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         "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
Iechanical design   Design of the positioner   Rotation angle of the part-turn actuator   Stroke range of the linear actuator   Material   Enclosure   Material   Mounting kit for linear actuator   Mounting kit for part-turn actuator   Type of the assembly	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.         Structural Design         single-acting         30 Degree100 Degree         3 mm130 mm         polycarbonat, glass-fiber reinforced (PC)         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         "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
Iechanical design   Design of the positioner   Rotation angle of the part-turn actuator   Stroke range of the linear actuator   Material   Enclosure   Material   Mounting kit for linear actuator   Mounting kit for part-turn actuator   Type of the assembly   Design of connection for actuating pressure	versions, can be found in the EC Declaration of Conformity on the Siemen Internet pages.         Structural Design         single-acting         30 Degree100 Degree         3 mm130 mm         polycarbonat, glass-fiber reinforced (PC)         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         "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

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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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:	6DR50100EN020BA3
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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	
Certif	ficates 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	

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