

Datasheet for

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

Ordering data: 6DR51100NN010AA0

General

Manufacturer	Siemens
Supplier	Siemens
Product designation	Electropneumatic positioner
Brand name	SIPART PS2
Type designation	SIPART PS2 Smart, electropneumatic positioner, 4...20mA, HART, Ex/nEx, single-acting, polycarbonate enclosure, for pneumatic linear and part-turn actuators. Non-contacting (wear-free) position detection (NCS).
Article number	6DR51100NN010AA0
Net weight	0,9 kg
Slogan	One that masters everything: SIPART PS2

Input

Analog input

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

Environmental conditions

Ambient temperature during operation	
Ambient temperature during operation (minimum)	-30 °C
Ambient temperature during operation (maximum)	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.
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Structural Design

Mechanical design

Design of the positioner	single-acting
Rotation angle of the part-turn actuator	
Rotation angle of the part-turn actuator (minimum)	30 Degree
Rotation angle of the part-turn actuator (maximum)	100 Degree
Stroke range of the linear actuator	
Stroke range of the linear actuator (minimum)	3 mm
Stroke range of the linear actuator (maximum)	130 mm

Material

Enclosure

Material	polycarbonat, glass-fiber reinforced (PC)
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Mounting

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

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Electrical connections	
Connection technology	2-wire connection
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
Operating medium	Nitrogen
Operating medium	natural gas (purified)
Operating pressure of the supply air (maximum)	7 bar
Compressed air purity class for humidity and liquid water	Class 2

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

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