

Datasheet for

SIPART PS2 smart electropneumatic positioner for pneumatic linear and part-turn actuators; 2-wire; 4...20mA with HART-interface; double acting; Enclosure aluminum, flame-proof

Ordering data: **6DR51250EG110AA0**

General	
Manufacturer	Siemens
Supplier	Siemens
Product designation	Electropneumatic positioner
Brand name	SIPART PS2
Type designation	SIPART PS2 smart electropneumatic positioner for pneumatic linear and part-turn actuators; 2-wire; 4...20mA with HART-interface; double acting; Enclosure aluminum, flame-proof
Net weight	5.2 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

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
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Design

Mechanical design

Design of the positioner	double-acting, single-acting
Rotation angle of the part-turn actuator	30 Degree...100 Degree
Stroke range of the linear actuator	3 mm...130 mm

Material

Housing

Material	aluminum
Material number according to DIN EN 10027-2	3.2581

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
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
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	G 1/4"

Electrical connections

Connection technology	2-wire connection
Design of the cable entry	M20 x 1.5
Design of the electrical connection point	screw terminals 2.5 AWG28-12

Power supply	
Type of the auxiliary energy	pneumatical

Pneumatic

This is only an extract from the technical data. For more details, see the FI 01 catalog or the Industry Mall.
Creation date: 04/06/2020

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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 according to ISO 8573-1	Class 2
Compressed air purity class for particles according to ISO 8573-1	Class 2

Communication	
Protocol	HART

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
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

Explosion protection

Ex-marking	Ex d T4 Gb
Ex-marking	II 2 G Ex d T4 Gb

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.