

## 8.1 Technical details

<b>Technical details</b>	
Application range	<b>Standard</b>
Module's device code	<b>0210h</b>
Number of ST input bits	<b>4</b>
Number of ST status bits	<b>8</b>
Support in system environment A	
from ST firmware version for other head modules	<b>17</b>
from ST firmware version PSSu H S PN	<b>2</b>
Support in system environment B	<b>no</b>
<b>Electrical data</b>	
Internal supply voltage (module supply)	
Supply voltage range of module supply	<b>4.8 - 5.4 V</b>
Module's current consumption	<b>60 mA</b>
Module's power consumption	<b>0.30 W</b>
Periphery's supply voltage (periphery supply)	
Voltage range	<b>16.8 - 30.0 V</b>
Module's current consumption with no load	<b>25 mA</b>
Module's power consumption with no load	<b>0.60 W</b>
Max. power dissipation of the module	<b>1.50 W</b>
<b>Inputs</b>	
Number	<b>4</b>
Input voltage	<b>24 V DC</b>
Input current	<b>3.0 - 10.0 mA</b>
Min. threshold voltage when signal changes from "1" to "0"	<b>8.0 V</b>
Max. threshold voltage when signal changes from "0" to "1"	<b>10.0 V</b>
Potential isolation between input and voltage for the internal module bus	<b>yes</b>
<b>Outputs</b>	
Number of outputs for periphery supply	<b>2</b>
Function	<b>Sensor supply</b>
Short-circuit proof	<b>yes</b>
Potential isolation between output and voltage for the internal module bus	<b>yes</b>
Max. output current at rated voltage	<b>0.25 A</b>
Permitted loads	<b>inductive, capacitive, resistive</b>
<b>Times</b>	
Max. processing time for input when signal changes from "1" to "0"	<b>4.00 ms</b>
Max. processing time for input when signal changes from "0" to "1"	<b>4.00 ms</b>
Min. processing time for input when signal changes from "1" to "0"	<b>3.00 ms</b>
Min. processing time for input when signal changes from "0" to "1"	<b>3.00 ms</b>

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<b>Environmental data</b>	
Climatic suitability	EN 60068-2-14, EN 60068-2-1, EN 60068-2-2, EN 60068-2-30, EN 60068-2-78
Ambient temperature in accordance with EN 60068-2-14	0 - 60 °C
Storage temperature in accordance with EN 60068-2-1/-2	-25 - 70 °C
Climatic suitability in accordance with EN 60068-2-30, EN 60068-2-78	93 % r. h. at 40 °C
Condensation	no
EMC	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-6-2, EN 61000-6-4
Vibration to EN 60068-2-6	
Frequency	10 - 55 Hz
Max. acceleration	1g
Shock stress	
EN 60068-2-27	15g 11 ms
EN 60068-2-29	10g 16 ms
Protection type in accordance with EN 60529	
Mounting (e.g. cabinet)	IP54
Housing	IP20
Terminals	IP20
Airgap creepage in accordance with EN 60664-1	
Overvoltage category	II
Pollution degree	2
<b>Mechanical data</b>	
Housing material	
Front	PC
Bottom	PC
Coding	PA
Dimensions	
Height	76.0 mm
Width	12.6 mm
Depth	60.2 mm
Weight	32 g
Mechanical coding	
Type	A
Colour	dark grey

The standards current on **2008-03** apply.

## 8.2 Order reference

Order reference	
<b>Description</b>	<b>Order no.</b>
PSSu E S 4DI-D (Electronic module)	312 401
<b>Base modules</b>	<b>Order no.</b>
PSSu BP 1/8S (Base module without C-rail with screw terminals)	312 600
PSSu BP 1/8C (Base module without C-rail with cage clamp terminals)	312 601
PSSu BP 1/12S (Base module without C-rail with screw terminals)	312 618
PSSu BP 1/12C (Base module without C-rail with cage clamp terminals)	312 619
PSSu BP-C1 1/12S (Base module with C-rail and screw terminals)	312 622
PSSu BP-C1 1/12C (Base module with C-rail and cage clamp terminals)	312 623