

SIMATIC S7-1200, DIGITAL I/O SM 1223, 8DI / 8DO, 8DI DC 24 V, SINK/SOURCE, 8DO, TRANSISTOR 0.5A



Supply voltage	
Rated value (DC)	
<ul style="list-style-type: none"> 24 V DC 	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
from backplane bus 5 V DC, max.	145 mA
Digital inputs	
<ul style="list-style-type: none"> from load voltage L+ (without load), max. 	4 mA; per channel
Output voltage	
Power supply to the transmitters	
<ul style="list-style-type: none"> present 	Yes
Power loss	
Power loss, typ.	2.5 W
Digital inputs	
Number of digital inputs	8
<ul style="list-style-type: none"> in groups of 	2

Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	8
horizontal installation	
— up to 40 °C, max.	8
— up to 50 °C, max.	8
vertical installation	
— up to 40 °C, max.	8
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	5 V DC at 1 mA
• for signal "1"	15 V DC at 2.5 mA
Input current	
• for signal "0", max. (permissible quiescent current)	1 mA
• for signal "1", min.	2.5 mA
• for signal "1", typ.	4 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four
for interrupt inputs	
— parameterizable	Yes
Cable length	
• shielded, max.	500 m
• unshielded, max.	300 m
Digital outputs	
Number of digital outputs	8
• in groups of	1
Short-circuit protection	No; to be provided externally
Limitation of inductive shutdown voltage to	L+ (-48 V)
Switching capacity of the outputs	
• with resistive load, max.	0.5 A
• on lamp load, max.	5 W
Output voltage	
• Rated value (DC)	24 V
• for signal "0", max.	0.1 V; with 10 kOhm load
• for signal "1", min.	20 V DC
Output current	

• for signal "1" permissible range, max.	0.5 A
• for signal "0" residual current, max.	10 µA
Output delay with resistive load	
• "0" to "1", max.	50 µs
• "1" to "0", max.	200 µs
Total current of the outputs (per group)	
horizontal installation	
— up to 50 °C, max.	4 A; Current per mass
Cable length	
• shielded, max.	500 m
• unshielded, max.	150 m
Interrupts/diagnostics/status information	
Alarms	
• Diagnostic alarm	Yes
Diagnostics indication LED	
• for status of the inputs	Yes
• for status of the outputs	Yes
Potential separation	
Potential separation digital inputs	
• between the channels, in groups of	2
Potential separation digital outputs	
• between the channels, in groups of	1
• between the channels and backplane bus	500 V AC
Degree and class of protection	
Degree of protection acc. to EN 60529	
• IP20	Yes
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
Marine approval	Yes
Ambient conditions	
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	-20 °C
• max.	60 °C

• horizontal installation, min.	-20 °C
• horizontal installation, max.	60 °C
• vertical installation, min.	-20 °C
• vertical installation, max.	50 °C
• permissible temperature change	5°C to 55°C, 3°C / minute
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	
• Storage/transport, min.	660 hPa
• Storage/transport, max.	1 080 hPa
Relative humidity	
• Operation at 25 °C without condensation, max.	95 %
Connection method	
required front connector	Yes
Mechanics/material	
Enclosure material (front)	
• Plastic	Yes
Dimensions	
Width	45 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	210 g
last modified:	11/28/2017

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Clock Drivers & Distribution](#) category:

Click to view products by [Siemens](#) manufacturer:

Other Similar products are found below :

[8501BYLF](#) [854S015CKI-01LF](#) [8T33FS6221EPGI](#) [NB7V72MMNHTBG](#) [Si53314-B-GMR](#) [4RCD0124KC0ATG](#) [P9090-0NLGI8](#)
[SY100EP33VKG](#) [850S1201BGILF](#) [8004AC-13-33E-125.00000X](#) [ISPPAC-CLK5520V-01T100C8P](#) [4RCD0124KC0ATG8](#) [854110AKILF](#)
[PI6C4931504-04LIE](#) [SI53305-B-GMR](#) [83210AYLF](#) [NB6VQ572MMNG](#) [4RCD0229KB1ATG](#) [PI6C4931502-04LIE](#) [8SLVD1212ANLGI](#)
[PI6C4931504-04LIE](#) [AD9508BCPZ-REEL7](#) [NBA3N200SDR2G](#) [8T79S308NLGI](#) [SI53315-B-GMR](#) [NB7NQ621MMUTWG](#)
[49FCT3805DPYGI8](#) [49FCT805BTPYG](#) [49FCT805PYGI](#) [RS232-S5](#) [542MILFT](#) [6ES7390-1AF30-0AA0](#) [74FCT3807PYGI](#) [SY89873LMG](#)
[SY89875UMG-TR](#) [853S011BGILFT](#) [853S9252BKILF](#) [8P34S1102NLGI8](#) [8T53S111NLGI](#) [CDCVF2505IDRQ1](#) [CDCUA877ZQLT](#)
[CDCE913QPWRQ1](#) [CDC2516DGGR](#) [8SLVP2104ANBGI/W](#) [8S73034AGILF](#) [LV5609LP-E](#) [5T9950PFGI](#) [STCD2400F35F](#)
[74FCT3807QGI8](#) [74FCT3807PYGI8](#)