SIEMENS

Data sheet

6ES7223-1BH32-0XB0



SIMATIC S7-1200, Digital I/O SM 1223, 8 DI/8 DO, 8 DI 24 V DC, Sink/Source, 8 DO, transistor 0.5 A $\,$

Figure similar

General information		
Product type designation	SM 1223, DI 8x24 V DC, DQ 8x24 V DC	
Supply voltage		
Rated value (DC)	24 V	
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		
 from load voltage L+ (without load), max. 	4 mA; per channel	
output voltage / header		
supply voltage of the transmitters / header		
 product function / supply voltage for transmitters 	Yes	
Power loss		
Power loss, typ.	2.5 W	
Digital inputs		
Number of digital inputs	8	
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
with resistive load, max. on lamp load, max.	5 W
Output voltage	3 VV
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" rated value	0.5 A
• for signal "1" permissible range, max.	0.5 A
for signal "0" residual current, max.	10 μΑ
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. unshielded, max.	150 m
Interrupts/diagnostics/status information	130 111
Alarms ● Diagnostic alarm	Yes
Diagnostics indication LED	165
• 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	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Marine approval	Yes
Ambient conditions	
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	00.00
• min.	-20 °C
max. horizontal installation, min	60 °C
horizontal installation, min.horizontal installation, max.	-20 °C 60 °C
■ HOHZOHlai iri5lallalloti, Iliax.	00 0

 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 / header	
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

 $Pobrano\ z:\ https://sterowniki-plc.net/modul-8-wejsc-i-8-wyjsc-binarnych-simatic-s7-1200-24v-dc-siemens-6es7223-1bh32-0xb0$