Data sheet

SIPLUS HCS4000 I/O module DI/DO with 8 digital outputs and 8 configurable inputs or outputs



General information				
Product type designation	I/O4000 DI/DQ			
Installation type/mounting				
Mounting type	Screw mounting to CIM			
Mounting position	vertical			
Type of ventilation	Forced ventilation			
Supply voltage				
Design of the power supply	Power supply via CIM			
Power				
Active power input, max.	1 W			
Digital inputs				
Number of digital inputs	8			
Connection method				
 Design of electrical connection at the digital inputs 	1x 18 pole connector with spring-loaded connection			
 Connectable conductor cross-sections, solid 	1x (0.2 1.5 mm²)			

— Connectable conductor cross-sections,		
finely stranded with wire end processing		

— Connectable conductor cross-sections for AWG cables

1x	(0.25)		1.5	mm ²)
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1x (24 ... 16)

Digital outputs	10	
Number of semiconductor outputs	16	
Design of switching output	semiconductor output (high side switch)	
Switching performance	monostable	
short-circuit proof	Yes	
Control supply voltage		
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
Output voltage		
Type of output voltage	DC	
Rated value (DC)	24 V	
Output voltage, min.	19.2 V	
Output voltage, max.	28.8 V	
Output current		
• for signal "1" permissible range, max.	500 mA	
Connection method		
Design of electrical connection at the digital	2x 18 pole connector with spring-loaded connection	
outputs		
 Connectable conductor cross-sections, 	1x (0.2 1.5 mm²)	
solid		
 Connectable conductor cross-sections, finely stranded with wire end processing 	1x (0.25 1.5 mm²)	
 Connectable conductor cross-sections for AWG cables 	1x (24 16)	
Design of electrical connection for control cupply yellage.	2x 18 pole connector with spring-loaded connection	
supply voltage — Connectable conductor cross-sections with wire end processing	1x (0.25 1.5 mm²)	
 Connectable conductor cross-sections for AWG cables 	1x (24 16)	
nterfaces		
Interfaces/bus type	system interface	
nterrupts/diagnostics/status information		
Number of status displays	18	
LED status display	LED green = Ready, LED red = Error display, 1 LED yellow per output: LED on - H status; LED off -L status	
Potential separation		

between outputs and system interface

Yes

Isolation	
Overvoltage category	lli .
Degree of pollution	2
EMC	
EMC interference emission	Limit value in accordance with IEC 61000-6-4:2007 + A1:2011
Electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Field-related interference acc. to IEC 61000-4-3	10 V/m (80 1 000 MHz), 3 V/m (1.4 2.0 GHz), 1 V/m (2.0 2.7 GHz)
Conducted interference due to burst acc. to IEC 61000-4-4	2 kV signal lines
Conducted interference due to surge acc. to IEC 61000-4-5	DC supply cables: 0.5 kV balanced and unbalanced
Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6	10 V (0.15 80 MHz)
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
China RoHS compliance	Yes
Reference designation according to DIN EN 81346-2	К
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
● max.	55 °C
Ambient temperature during storage/transportation	
• Storage, min.	-25 °C
• Storage, max.	70 °C
• Transportation, min.	-25 °C
 Transportation, max. 	70 °C
Air pressure acc. to IEC 60068-2-13	
Operation, min.	860 hPa
Operation, max.	1 080 hPa
• Storage, min.	660 hPa
• Storage, max.	1 080 hPa
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	2 000 m
Relative humidity	

 Operation at 25 °C, max. 	95 %
 Operation at 50 °C, max. 	50 %; 95 % at 25 °C, decreasing linearly to 50 % at 50 °C
Vibrations	
 Vibration resistance during operation acc. to IEC 60068-2-6 	10 58 Hz / 0.075 mm, 58 150 Hz / 1 g
 Vibration resistance during storage acc. to IEC 60068-2-6 	5 8.5 Hz / 3.5 mm, 8.5 500 Hz / 1 g
Shock testing	
 Shock resistance during operation acc. to IEC 60068-2-27 	15 g / 11 ms / 3 shocks/axis
 Shock resistance during storage acc. to IEC 60068-2-29 	25 g / 6 ms / 1 000 shocks/axis
Dimensions	
Width	27 mm
Height	141 mm
Depth	110 mm

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last modified: