SIEMENS

Data sheet

6DL1131-6DF00-0PK0



SIMATIC ET 200SP HA, digital input module, DI 8X24 \dots 125VDC HA suitable for terminal block K0, color code CC42, channel diagnostics

Product type designation	DI 8x24 125 V DC HA
Product type designation	
Firmware version	V1.0
FW update possible	Yes
Usable terminal block	TB type K0
Color code for module-specific color identification plate	CC42
Product function	
I&M data	Yes; I&M0 to I&M3
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V16
 STEP 7 configurable/integrated from version 	V5.6
 PCS 7 configurable/integrated from version 	V9.0
 PCS neo can be configured/integrated from version 	V3.0
 PROFINET from GSD version/GSD revision 	GSDML V2.3
Operating mode	
• DI	Yes
Counter	No
Oversampling	No
• MSI	No
Redundancy	
Redundancy capability	No
upply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
iput current	
Current consumption (rated value)	16 mA
Current consumption, max.	20 mA
ower loss	
Power loss, typ.	3.75 W
ddress area	0.10 11
Address space per module	
Address space per module, max.	1 byte; + 1 byte for QI information
igital inputs	1 0,0, 1 byte for a morniation
	8
Number of digital inputs	
Source/sink input Input characteristic curve in accordance with IEC 61131, type 1	Yes; P-reading
	Yes
Input characteristic curve in accordance with IEC 61131, type 1	Yes

Time stamp (with precision of 1 ms)	Yes; Resolution 1ms
Input voltage	
• for signal "0"	-125 +5 V
• for signal "1"	+11 +125 V
Input current	
● for signal "1", typ.	3.1 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; 0.05 / 0.1 / 0.4 / 0.8 / 1.6 / 3.2 / 12.8 / 20 ms (in each case + delay of 30 to 500 μs , depending on line length)
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
- permissible quiescent current (2-wire sensor), max.	1.5 mA
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Hardware interrupt	Yes; Parameterizable, channels 0 to 7, rising/falling edge
Diagnoses	3 - 3 - 3
Diagnostic information readable	Yes
Monitoring the supply voltage	Yes
Wire-break	Yes; channel by channel
Group error	Yes
Diagnostics indication LED	
MAINT LED	Yes; Yellow LED
Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
Channel status display	Yes; green LED
* *	Yes; red LED
for channel diagnostics for goodule diagnostics	
• for module diagnostics	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
 between the channels 	No
between the channels and backplane bus	Yes
Permissible potential difference	
between different circuits	250 V AC/300 V DC
Isolation	
Isolation tested with	3 500 V DC/1 min, type test
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-40 °C
 horizontal installation, max. 	70 °C
 vertical installation, min. 	-40 °C
 vertical installation, max. 	60 °C
Dimensions	
Width	22.5 mm
Height	115 mm
Depth	138 mm
Weights	
Weight, approx.	165 g
Troight, approx.	100 9

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