

# SIEMENS

## Product data sheet

**6ES7131-4CD00-0AB0**


SIMATIC DP,  
5 ELECTRON. MODULES ET 200S: 4DI UC  
24V...48V,  
15 MM WIDTH, WITH LED SF (GROUP FAULT),  
5 PIECES PER PACKAGING UNIT

Supply voltage	
24 V DC	Yes ; From power module
permissible range, lower limit (DC)	24 V
permissible range, upper limit (DC)	48 V
24 V AC	Yes
permissible range, lower limit (AC)	24 V
permissible range, upper limit (AC)	48 V
Reverse polarity protection	Yes ; AC or DC automatic
Input current	
from backplane bus 3.3 V DC, max.	10 mA
from supply voltage L+, max.	Dependent on encoder
Encoder supply	
Output voltage	min. L+ (-0.5 V), under load
Output current, rated value	500 mA
Output current, permissible range	0 to 500 mA

<b>Output current</b>	
Short-circuit protection	Yes ; per module
<b>Power losses</b>	
Power loss, typ.	0.7 W
<b>Address area</b>	
<b>Address space per module</b>	
with packing	4 bit
without packing	1 byte
<b>Digital inputs</b>	
Number/binary inputs	4
Input characteristic curve acc. to IEC 61131, Type 1	Yes
<b>Input voltage</b>	
Type of input voltage	AC/DC
Rated value, UC	24 V ; 24 to 48 V UC
for signal "0"	-6 to 6 V DC, 0 to 5 V AC
for signal "1"	-15 to -57.6 V DC; -15 to 57.6 V DC; 15 to 48 V AC
Frequency range	47 to 63 Hz
<b>Input current</b>	
for signal "1", typ.	10 mA ; 4 to 10 mA
<b>Input delay (for rated value of input voltage)</b>	
<b>for standard inputs</b>	
at "0" to "1", max.	15 ms
at "1" to "0", max.	15 ms
<b>Encoder connection</b>	
Fixed current limitation for wire break monitoring, min.	18 kΩ ; Rated voltage 24 V (15 V to 35 V); rated voltage 48 V (30 V to 60 V): 39 kohms
<b>Cable length</b>	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
<b>Encoder</b>	
<b>Connectable encoders</b>	
2-wire sensor	Yes
Permissible quiescent current (2-wire sensor), max.	2 mA ; (0.5 to 2 mA), a minimum load current is necessary for wire break diagnostics.

<b>Isochronous mode</b>	
Isochronous operation (application synchronized up to terminal)	Yes
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostic messages</b>	
Diagnostic functions	Yes ; Parameterizable
<b>Diagnostics indication LED</b>	
Group error SF (red)	Yes
Status indicator digital input (green)	Yes ; per channel
<b>Galvanic isolation</b>	
<b>Galvanic isolation digital inputs</b>	
between the channels	No
between the channels and the backplane bus	Yes
<b>Permissible potential difference</b>	
between different circuits	75 VDC / 60 VAC
<b>Isolation</b>	
Isolation checked with	2500 V DC
<b>Dimensions</b>	
Width	15 mm
Height	81 mm
Depth	52 mm
<b>Weight</b>	
Weight, approx.	35 g
Status	Mar 12, 2012