

SIEMENS

Product data sheet

6ES7131-4BD51-0AA0


SIMATIC DP,
5 ELECTRON. MODULES FOR ET 200S,
4 DI SOURCE INPUT 24V DC, 15 MM WIDTH,
5 PIECES PER PACKAGING UNIT

Supply voltage	
24 V DC	Yes ; From power module
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
from supply voltage L+, max.	Dependent on encoder
Encoder supply	
Output voltage	max. M +0.5 V, under load
Output current, rated value	500 mA
Output current, permissible range	0 to 500 mA
Power losses	
Power loss, typ.	0.7 W
Address area	
Address space per module	

with packing	4 bit
without packing	1 byte
Digital inputs	
Number/binary inputs	4
Input characteristic curve acc. to IEC 61131, Type 1	Yes
Input voltage	
Type of input voltage	DC
Rated value, DC	24 V
for signal "0"	-5 to +30 V
for signal "1"	-15 to -30 V
Input current	
for signal "1", typ.	7 mA ; at 24 V
Input delay (for rated value of input voltage)	
for standard inputs	
Parameterizable	No
at "0" to "1", min.	2 ms ; typically 3 ms
at "0" to "1", max.	4.5 ms
at "1" to "0", min.	2 ms ; typically 3 ms
at "1" to "0", max.	4.5 ms
Cable length	
Cable length, shielded, max.	1000 m
Cable length 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	
Diagnostic messages	
Diagnostic functions	No
Diagnostics indication LED	
Group error SF (red)	No
Status indicator digital input (green)	Yes ; per channel
Galvanic isolation	

Galvanic isolation digital inputs	
between the channels	No
between the channels and the backplane bus	Yes
Permissible potential difference	
between different circuits	75 VDC / 60 VAC
Isolation	
Isolation checked with	500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weight	
Weight, approx.	35 g
Status	Jul 17, 2012