

SIMATIC DP,  
ELECTRONIC MODULE FOR ET200PRO 16 DI DC 24V,  
MODULE DIAGNOSTICS;  
INCLUSIVE BUS MODULE CONNECTING MODULE IO  
6ES7194-4CB50-0AA0 MUST BE ORDERED SEPERATELY

FH technology	
Module for fail-safe applications	No
Supply voltage	
24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes ; Against destruction; encoder power supply outputs applied with reversed polarity
Input current	
from backplane bus 3.3 V DC, max.	20 mA
from supply voltage 1L+, max.	30 mA
Encoder supply	
Number of outputs	8
Short-circuit protection	Yes ; per module, electronic
Output current	
up to 55 °C, max.	1 A
Power loss	
Power loss, typ.	3 W
Address area	
Occupied address area	
Inputs	2 byte
Digital inputs	
Number of digital inputs	16
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
all mounting positions	
up to 55 °C, max.	16
Input voltage	
Type of input voltage	DC

<b>Rated value, DC</b>	24 V
<b>Input current</b>	
<b>for signal "1", typ.</b>	4 mA
<b>Input delay (for rated value of input voltage)</b>	
<b>for standard inputs</b>	
<b>parameterizable</b>	No
<b>at "0" to "1", min.</b>	1.2 ms
<b>at "0" to "1", max.</b>	4.8 ms
<b>at "1" to "0", min.</b>	0.7 ms
<b>at "1" to "0", max.</b>	3 ms
<b>Cable length</b>	
<b>Cable length, shielded, max.</b>	30 m
<b>Cable length unshielded, max.</b>	30 m
<b>Encoder</b>	
<b>Connectable encoders</b>	
<b>2-wire sensor</b>	Yes
<b>permissible quiescent current (2-wire sensor), max.</b>	1.5 mA
<b>Isochronous mode</b>	
<b>Isochronous mode (application synchronized up to terminal)</b>	No
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostic messages</b>	
<b>Diagnostic functions</b>	Yes
<b>Diagnostic information readable</b>	Yes
<b>Short-circuit</b>	Yes ; Sensor supply to M; module by module
<b>Group error</b>	Yes
<b>Diagnostics indication LED</b>	
<b>Group error SF (red)</b>	Yes
<b>Status indicator digital input (green)</b>	Yes ; Per channel
<b>Galvanic isolation</b>	
<b>between backplane bus and all other circuit components</b>	Yes
<b>Galvanic isolation digital inputs</b>	
<b>between the channels</b>	No
<b>between the channels and the backplane bus</b>	Yes
<b>Permissible potential difference</b>	
<b>between different circuits</b>	75 VDC / 60 VAC
<b>Isolation</b>	
<b>Isolation tested with</b>	500 V DC
<b>Degree and class of protection</b>	

<b>IP65</b>	Yes
<b>IP66</b>	Yes
<b>IP67</b>	Yes
<b>Dimensions</b>	
<b>Width</b>	45 mm
<b>Height</b>	130 mm
<b>Depth</b>	35 mm
<b>Weights</b>	
<b>Weight, approx.</b>	140 g
Status	Jul 28, 2014