

SIMATIC DP,
ELECTRONIC BLOCK FOR ET 200L,
16 DI/16 DO, 24V DC/0.5 A



Supply voltage	
24 V DC	Yes
Reverse polarity protection	Yes
Hardware configuration	
Rack	
required terminal block	TB 32L
Digital inputs	
Number of digital inputs	16
Input voltage	
Type of input voltage	DC
Rated value, DC	24 V
for signal "0"	-30 to +5 V
for signal "1"	13 to 30 V
Input current	
for signal "1", typ.	5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
at "0" to "1", min.	2 ms

at "0" to "1", max.	4.5 ms
Cable length	
Cable length for NAMUR input, shielded, max.	1000 m
Digital outputs	
Number of digital outputs	16
Short-circuit protection	Yes
Output voltage	
Rated value (DC)	24 V
for signal "1", min.	U _a - 3 V
Output current	
for signal "1" permissible range for 0 to 60 °C, max.	0.5 mA
for signal "0" residual current, max.	1 mA
Switching frequency	
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
on lamp load, max.	8 Hz
Total current of the outputs (per group)	
all mounting positions	
up to 60 °C, max.	4 A
Cable length	
Cable length, shielded, max.	1000 m
Interfaces	
PROFIBUS DP	
Transmission rate, max.	1.5 Mbit/s
Direct data exchange (slave-to-slave communication)	Yes ; Transmitter (for digital outputs and hybrid modules ET 200L: not for L-SC or IM-SC)
Galvanic isolation	
between PROFIBUS DP and all other circuit components	Yes
Galvanic isolation digital inputs	
between the channels	No
between the channels and PROFIBUS DP	Yes
Degree and class of protection	
IP20	Yes
Ambient conditions	
Operating temperature	
horizontal installation, min.	0 °C
horizontal installation, max.	60 °C ; 40°C for other mountings
Air pressure	

permissible range, min.	795 hPa
permissible range, max.	1080 hPa
Relative humidity	
Operation, min.	5 %
Operation, max.	95 % ; RH class 2 in accordance with IEC 1131-2
Vibrations	
Operation, tested according to IEC 60068-2-6	Yes ; IEC 68, Part 2-6; 10 to 57 Hz; (constant amplitude 0.075 mm); 57 to 150 Hz; (constant acceleration 1 g)
Shock test	
tested according to IEC 60068-2-27	Yes ; IEC 68, Part 2-27; half-sine, 15 g, 11 ms
Connection method	
Inputs/outputs	Screw-type and spring-loaded terminals, permanent wiring; standard: 2-wire connection, optional: 3 and 4-wire connection
Dimensions	
Width	145 mm
Height	60 mm
Depth	60.5 mm
Status	Jul 7, 2014