



SIMATIC DP,
RS485 REPEATER FOR THE CONNECTION OF
PROFIBUS/MPI BUS SYSTEMS WITH MAX. 31 NODES;
MAX. 12 MBIT/S,
DEGREE OF PRO-TECTION IP20

Supply voltage

24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V

Input current

Current consumption, max.	200 mA ; (200 mA without loads at PG/OP socket; 230 mA load at PG/OP socket (5 V/90 mA); 300 mA load at PG/OP socket (24 V/90 mA))
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Interfaces

Bus cables	2 terminal blocks
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PROFIBUS DP

Transmission rate, max.	12 Mbit/s ; 9.6 kbit/s to 12 Mbit/s
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Degree and class of protection

IP20	Yes
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Ambient conditions

Operating temperature	
Min.	0 °C
max.	60 °C

Storage/transport temperature	
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Min.	-40 °C
max.	70 °C
Relative humidity	
Operation, max.	95 % ; at 25 °C
Connection method	
Power supply	Terminal block
Dimensions	
Width	45 mm
Height	128 mm
Depth	67 mm
Weight	
Weight, approx.	350 g
Status	May 20, 2013



SIMATIC DP, RS485 repeater For connection of PROFIBUS/MPI bus systems with max. 31 nodes max. baud rate 12 Mbit/s, Degree of protection IP20 Improved user handling

Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption, max.	100 mA; 100 mA without loads at PG/OP socket; 130 mA load at PG/OP socket (5 V/90 mA); 200 mA load at PG/OP socket (24 V/100 mA)
Power loss	
Power loss, typ.	0.7 W
Interfaces	
PROFIBUS DP	
• Transmission rate, max.	12 Mbit/s; 9.6 kbit/s to 12 Mbit/s
Degree and class of protection	
IP degree of protection	IP20
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	60 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Relative humidity	
• Operation, max.	95 %; at 25 °C
connection method	
Design of electrical connection for supply voltage	Terminal module
Design of electrical connection for PROFIBUS cables	2 terminal blocks
Dimensions	
Width	45 mm
Height	128 mm
Depth	59.3 mm
Weights	
Weight, approx.	350 g

last modified: 3/12/2024