



## Data sheet

### IM 253DP, PROFIBUS-DP slave (253-1DP31)

#### Technical data

<b>Order no.</b>	<b>253-1DP31</b>
Type	IM 253DP, PROFIBUS-DP slave
<b>General information</b>	
Note	-
Features	PROFIBUS-DP slave (RS485, DP-V0, DP-V1) For max. 8 peripheral modules 244 Byte input and 244 Byte output data
<b>Technical data power supply</b>	
Power supply (rated value)	DC 24 V
Power supply (permitted range)	DC 20.4...28.8 V
Reverse polarity protection	
Current consumption (no-load operation)	50 mA
Current consumption (rated value)	300 mA
Inrush current	60 A
$I_{\Delta t}$	0.4 A <sup>2</sup> s
Max. current drain at backplane bus	0.8 A
Max. current drain load supply	-
Power loss	1.5 W
<b>Status information, alarms, diagnostics</b>	
Status display	yes
Interrupts	yes, parameterizable
Process alarm	yes, parameterizable
Diagnostic interrupt	yes, parameterizable
Diagnostic functions	yes, parameterizable
Diagnostics information read-out	possible
Supply voltage display	green LED
Service Indicator	-
Group error display	red SF LED
Channel error display	none
<b>Hardware configuration</b>	
Racks, max.	1
Modules per rack, max.	8
Number of digital modules, max.	8
Number of analog modules, max.	8
<b>Communication</b>	
Fieldbus	PROFIBUS-DP to EN 50170
Type of interface	RS485
Connector	Sub-D, 9-pin, female
Topology	Linear bus with bus termination at both ends
Electrically isolated	

Number of participants, max.	125
Node addresses	1 - 125
Transmission speed, min.	9.6 kbit/s
Transmission speed, max.	12 Mbit/s
Address range inputs, max.	244 Byte
Address range outputs, max.	244 Byte
Number of TxPDOs, max.	-
Number of RxPDOs, max.	-

### Housing

Material	PPE / PA 6.6
Mounting	Profile rail 35 mm

### Mechanical data

Dimensions (WxHxD)	25.4 mm x 76 mm x 78 mm
Weight	90 g

### Environmental conditions

Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C

### Certifications

UL508 certification	yes
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