

## Data sheet

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

#### Technical data

<b>Order no.</b>	<b>253-1DP31</b>
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Type	IM 253DP, PROFIBUS-DP slave
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#### General information

Note	-
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Features	PROFIBUS-DP slave (RS485, DP-V0, DP-V1) For max. 8 peripheral modules 244 Byte input and 244 Byte output data
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#### Technical data power supply

Power supply (rated value)	DC 24 V
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Power supply (permitted range)	DC 20.4...28.8 V
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Reverse polarity protection	yes
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Current consumption (no-load operation)	50 mA
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Current consumption (rated value)	300 mA
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Inrush current	60 A
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$I_{\Delta t}$	0.4 A <sup>2</sup> s
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Max. current drain at backplane bus	0.8 A
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Max. current drain load supply	-
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Power loss	1.5 W
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#### Status information, alarms, diagnostics

Status display	yes
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Interrupts	yes, parameterizable
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Process alarm	yes, parameterizable
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Diagnostic interrupt	yes, parameterizable
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Diagnostic functions	yes, parameterizable
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Diagnostics information read-out	possible
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Supply voltage display	green LED
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Service Indicator	-
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Group error display	red SF LED
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Channel error display	none
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#### Hardware configuration

Racks, max.	1
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Modules per rack, max.	8
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Number of digital modules, max.	8
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Number of analog modules, max.	8
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#### Communication

Fieldbus	PROFIBUS-DP to EN 50170
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Type of interface	RS485
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Connector	Sub-D, 9-pin, female
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Topology	Linear bus with bus termination at both ends
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Electrically isolated	yes
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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

UL certification	yes
KC certification	-