

Data sheet

CP 042 - IO-Link Master (042-11000)

Technical data

Order no.	042-11000
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Type	CP 042 - IO-Link Master
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Module ID	0A81BC80
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General information

Note	-
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Features	<p>IO-Link master with 4 channels (4 IO-Link devices)</p> <p>IO-Link ports galvanically isolated from the backplane bus</p> <p>Permanent memory for parameter</p> <p>The ports can be run as standard-I/O (SIO) or in IO-Link mode</p> <p>Status-LEDs for SIO-mode, IO-Link mode and for error indication</p> <p>The length of the process data for input and output is 64 bytes each</p>
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Current consumption/power loss

Current consumption from backplane bus	32 mA
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Current consumption from load voltage L+ (without load)	17.7 mA
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Power loss	1.2 W
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Status information, alarms, diagnostics

Status display	yes
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Interrupts	no
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Process alarm	no
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Diagnostic interrupt	no
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Diagnostic functions	yes
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Diagnostics information read-out	possible
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Supply voltage display	-
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Group error display	red LED
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Channel error display	red LED
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Datasizes

Input bytes	64
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Output bytes	64
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Parameter bytes	0
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Diagnostic bytes	20
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Power delivery

Rated load voltage	DC 24 V
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Rated load voltage (permitted range)	DC 20.4...28.8 V
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Encoder supply

Number of outputs (L+n)	4
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Rated output current	500 mA per port
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Overload protection	yes
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Reverse polarity protection	yes
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Port settings

Port mode	<p>Deactivated (default)</p> <p>IO-Link mode (autostart)</p> <p>IO-Link mode (manual)</p> <p>SIO mode DI (digital input)</p> <p>SIO mode DO (digital output)</p>
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IO-Link mode

Number of ports	4
Specification	IO-Link V1.1.3
Overload protection	C/Q pins
Reverse polarity protection	C/Q pins
Data transfer rates	4.8 kBaud (COM1) 38.4 kBaud (COM2) 230.4 kBaud (COM3)
Connection	3-wire
Cable length, unshielded	max. 20m

SIO mode (C/Q) digital input

Number of inputs	4
Rated input current (C/Q) at signal "1"	5,5 mA per port
Connector	2, 3 wires
Fulfilled standard	IEC 61131-2 IEC 61131-9 SDCI

SIO mode (C/Q) digital output

Number of outputs	4
Rated output current (C/Q) at signal "1"	200 mA per port (DC general use)
Overload protection	C/Q pins
Reverse polarity protection	C/Q pins
Connector	2, 3 wires
Fulfilled standard	IEC 61131-2 IEC 61131-9 SDCI

Housing

Material	PPE / PPE GF10
Mounting	Profile rail 35 mm

Mechanical data

Dimensions (WxHxD)	12.9 mm x 109 mm x 76.5 mm
Net weight	52 g
Weight including accessories	67 g
Gross weight	67 g

Environmental conditions

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

Certifications

UL certification	yes
KC certification	yes
UKCA certification	yes
ChinaRoHS certification	yes