

Data sheet

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

Technical data

Order no.	042-11000
------------------	------------------

Type	CP 042 - IO-Link Master
------	-------------------------

Module ID	0A81BC80
-----------	----------

General information

Note	-
------	---

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

Current consumption/power loss

Current consumption from backplane bus	32 mA
--	-------

Current consumption from load voltage L+ (without load)	17.7 mA
---	---------

Power loss	1.2 W
------------	-------

Status information, alarms, diagnostics

Status display	yes
----------------	-----

Interrupts	no
------------	----

Process alarm	no
---------------	----

Diagnostic interrupt	no
----------------------	----

Diagnostic functions	yes
----------------------	-----

Diagnostics information read-out	possible
----------------------------------	----------

Supply voltage display	-
------------------------	---

Group error display	red LED
---------------------	---------

Channel error display	red LED
-----------------------	---------

Datasizes

Input bytes	64
-------------	----

Output bytes	64
--------------	----

Parameter bytes	0
-----------------	---

Diagnostic bytes	20
------------------	----

Power delivery

Rated load voltage	DC 24 V
--------------------	---------

Rated load voltage (permitted range)	DC 20.4...28.8 V
--------------------------------------	------------------

Encoder supply

Number of outputs (L+n)	4
-------------------------	---

Rated output current	500 mA per port
----------------------	-----------------

Overload protection	yes
---------------------	-----

Reverse polarity protection	yes
-----------------------------	-----

Port settings

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

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	52 g
Gross weight	73 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