YASKAWA

Data sheet
CP 042 - IO-Link Master (042-1IO00)

Technical data

Order no.	042-1IO00
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	

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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

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