

Data sheet

IM 053ML - MECHATROLINK (053-1ML00)

Technical data

Order no.	053-1ML00
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Type	IM 053ML - MECHATROLINK
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Module ID	-
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General information

Note	-
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Features	<p>MECHATROLINK according to IEC 61158, IEC 61784 Up to 64 peripheral modules Supports standard I/O profile (16byte and 64byte mode) Multi slave node with max. 9 stations Max. 492byte input and 492byte output data Integrated DC 24V power supply for power and electronic section supply of the periphery modules Integrated Web server Configuration is done via software tool respectively Web server</p>
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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)	95 mA
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Current consumption (rated value)	0.95 A
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Inrush current	3.9 A
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I^2t	0.14 A ² s
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Max. current drain at backplane bus	3 A
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Max. current drain load supply	10 A
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Power loss	3 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	yellow LED
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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.	64
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Number of digital modules, max.	64
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Number of analog modules, max.	64
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Communication

Fieldbus	MECHATROLINK-III
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Type of interface	Ethernet 100 MBit
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Connector	2 x RJ45
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Topology	Line
Electrically isolated	yes
Number of participants, max.	-
Node addresses	-
Transmission speed, min.	100 Mbit/s
Transmission speed, max.	100 Mbit/s
Address range inputs, max.	492 Byte
Address range outputs, max.	492 Byte
Number of TxPDOs, max.	-
Number of RxPDOs, max.	-
Supported profile	Standard I/O profiles
Supported transfer cycle	125us, 250us, 500us, 750us, 1ms... 8ms (every 500us)
Cyclic data size per node	16byte (slave), 64byte (peripheral)
Max. Number of nodes	9 (00h : for slave, 01h-08h for modules)
Supported communication method	Cyclic, Event driven, Message
Supported command "Cyclic"	NOP, ID_RD, CONFIG, ALM_RD, ALM_CLR, SYNC_SET, CONNECT, DISCONNECT, DATA_RWA, DATA_RWS
Supported command "Event driven"	NOP, ID_RD, CONNECT, DISCONNECT
Supported command "Message"	Memory read , Read max message size, Download request, Download data, Download complete

Datasizes

Input bytes	492
Output bytes	492
Parameter bytes	-
Diagnostic bytes	-

Housing

Material	PPE / PPE GF10
Mounting	Profile rail 35 mm

Mechanical data

Dimensions (WxHxD)	48.5 mm x 109 mm x 76.5 mm
Net weight	160 g
Weight including accessories	160 g
Gross weight	175 g

Environmental conditions

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

Certifications

UL certification	yes
KC certification	yes