

ML50 Compact Logic Controller



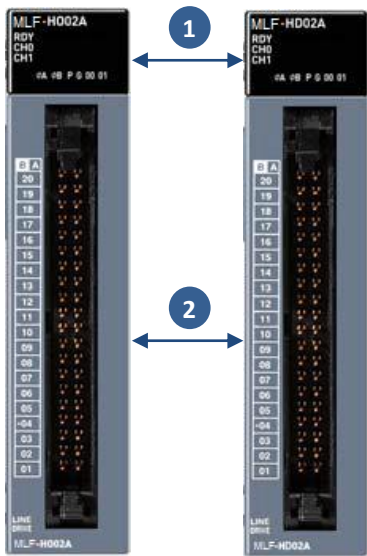
AUTOMATION
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Honeywell Solutions for
Machine Automation



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Expansion
High Speed Counter Module



Specification		Model	Specification	
			MLF-H002A	MLF-HD02A
Count input signal	Signal	A-phase, B-phase		
	Input type	Voltage input (Open Collector)		Differential input (Line Drive)
	Signal level	DC 5/12/24V		RS-422A Line Drive/HTL LEVEL Line Drive
Max. Coefficient speed		200 kpps		500 kpps(HTL input : 250 kpps)
Number of channels		2 channels		
Coefficient Range		Signed 32-bit (-2,147,483,648 ~ 2,147,483,647)		
Count Mode		Linear Count (When 32-bit range exceeded, Carry /Borrow occurs, The count value stopped) Ring Count (Repeated count within setting range)		
Input Pulse Mode		1-phase input		
		2-phase input		
		CW/CCW input		
Up/down setting	1 phase input	Increasing / Decreasing operation setting by B-phase input		
	2 phase input	Increasing / Decreasing operation setting by program		
	CW/CCW	Automatic setting by difference in phase		
		A-phase input: Increasing operation B-phase input: Decreasing operation		
Multiplication	1 phase input	1/2 multiplication		
	2 phase input	1/2/4 multiplication		
	CW/CCW	1 multiplication		
Control input	Signal	Preset instruction input, Auxiliary mode instruction input		
	Signal level	DC 5V/12V/24V (by terminal selection) input type		
	Signal type	Voltage		
External output	Output points	2-point/channel (for each channel): Terminal output available		
	Type	Select single-compared (>, >=, =, <=, <) or section compared output (Included or excluded)		
	Output type	Open collector output (Sink)		
Operation Status Display	Input Signal	A-phase input, B-phase input, Preset instruction input, Auxiliary mode instruction input		
	Output Signal	External output 0, External output 1		
	Busy Status	Module Ready		
Count enable		To be set through program (Count available only in enable status)		
Preset function		To be set through terminal or program		
Auxiliary mode function		Count clear, Count latch,		
		Section count(time setting value: 0~60000 ms), Measurement of input frequency(for respective input phase), Measurement of counts per hour(time setting value: 0~60000 ms)		
		Count prohibited function		
Terminal		40 pin connector		
I/O occupied points		Fixed point: 64		
Current consumption(mA)		200		260
Weight		90g		

Basic unit	Required Version
MLM-D_S	V3.0 or later
MLC-D_H	V1.8 or later
MLI-D_H, MLI-D_SU	V1.2 or later

Name of parts

No	Name	Descriptions
1	RUN LED (0A,0B, P, G, 00, 01)	▶ On: Relevant channel pulse inputting, Preset/Auxiliary function signal inputting, Outputting ▶ Off: No input of relevant channel pulse, No input of preset/ Auxiliary function signal, No output of comparison
	Ready signal (RDY)	▶ On: HSC module normal ▶ Off: Power off or CPU module reset, HSC module error • Flicker: HSC module error ▶ On: HSC module normal
2	External wiring connector	▶ Connector to connect with external I/O.



Product List

Item	Model	Descriptions
Expansion I/O module	MLE-DC08A	8-point DC24V input
	MLE-DC16A	16-point DC24V input
	MLE-DC32A	32-point DC24V input
	MLE-RY08A	8-point Relay output
	MLE-RY16A	16-point Relay output
	MLE-TN08A	8-point TR(SINK) output
	MLE-TN16A	16-point TR(SINK) output
	MLE-TN32A	32-point TR(SINK) output
	MLE-DR16A	8-point DC24V input, 8-point Relay output
	MLE-TP08A	8-point Transistor (source) output
	MLE-TP16A	16-point Transistor (source) output
	MLE-TP32A	32-point Transistor (source) output
Special module (Analog IO)	MLF-AD04A	4-channel Analog input (Current/Voltage)
	MLF-AD04C	4-channel Analog input (Current/Voltage, resolution : 1/16000)
	MLF-AH04A	2-ch Analog input (Current/Voltage), 2-ch Analog output (Current/Voltage)
	MLF-DV04A	4-channel Analog output (Voltage)
	MLF-DC04A	4-channel Analog output (Current)
	MLF-RD04A	4-channel RTD input
	MLF-TC04S	4-channel Thermo-couple input(Isolation)
	MLF-AD08A	8-channel Analog input (Current/Voltage)
Communication module	MLL-C41A	Snet(RS422/485), 1channel
	MLL-C21A	Snet(RS232C), 1channel
	MLL-EMTA	Fast Ethernet (100Mbps), 1ch
	MLL-EIPT	Ethernet/IP, 2channel
	MLL-CMEA	CANopen(max 1000kbps, , Num of PDO : 32)
	MLL-CSEA	CANopen(max 1000kbps, , Num of PDO : 64)
	PMC-310S	Configuring Cable serial, PC(9pin)-PLC(6pin)
	USB-301A	Configuring Cable, USB
	TG7-1H40S	Smart Link Terminal Board 40P
Option Boards for "SU", "E"	MLO-AD02A	2-channel Analog input (Current/Voltage)
	MLO-DA02A	2-channel Analog output
	MLO-AH02A	1-ch Analog input(I/V), 1ch Analog output(I/V)
	MLO-TC02A	2-channel Thermo-couple input(non-isolation)
	MLO-RD01A	1-channel RTD input
	MLL-RTCA	RTC, BAT for back-up