Lovato electric
ENERGY AND AUTOMATION

Product designation		Micro PLC - Base module
Product type designation		LRD12TD024
Auxiliary supply voltage		24VDC
Number of inputs	Nr.	6 digital + 2 digital/analog
Number of outputs	Nr.	4 transistor
Max I/O number		12 (8 inputs + 4 outputs) up to 36 with LRE modules

Power supply

Rated auxil. supply voltage		24VDC
Operating voltage range		20.4...28.8VDC
Avarage current consumption	mA	125
Power consumption Max	W	4.5

Digital inputs

Number of digital input	Nr.	6 + 2 digital/analog
Rated voltage	V	24VDC
Input signals		
State 0 (OFF)		<5VDC
State 1 (ON)		>15VDC
Response time		
0 to 1 (OFF-ON)		4ms (0.5ms for high speed)
1 to 0 (ON-OFF)		4ms (0.3ms for high speed)

Analog inputs

Number of analog input	Nr.	2 digital/analog
Analog input type		Voltage inputs
Inputs signal range	V	0...10
Resolution		0.01V
Bit of conversion	bit	10
Current consumption at		
10VDC	mA	<0.17mA
Input impedance	kΩ	>40
Admissible overload	VDC	28
Sampling time	ms	5...20ms(LADDER) 2...10ms (FBD)
Maximum cable lenght	m / ft	≤30m/98ft (shielded wire)

Digital outputs

Number of digital output	Nr.	4
type		Transistor

System resources

LRD12TD024
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Display				LCD display, 4 lines x 16 characters
Connections				
Terminals type				Screw
Tightening torque for terminals				
		max	Nm	0.6
		Max	lbft	0.4
Conductor section				
	AWG/Kcmil			
		min		26
		max		14
	IEC			
		min	mm²	0.14
		max	mm²	2.5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
		max	°C	+55
	Storage temperature			
		min	°C	-40
		max	°C	+70
Relative humidity			%	20...90% without condensation
Housing				
Mounting				35mm DIN rail or screw fixing (M4x20mm)
Degree of protection				IP20
Dimensions (W x H x D)			mm	72 x 106 x 59.6
Weight			g	220
Dimensions				

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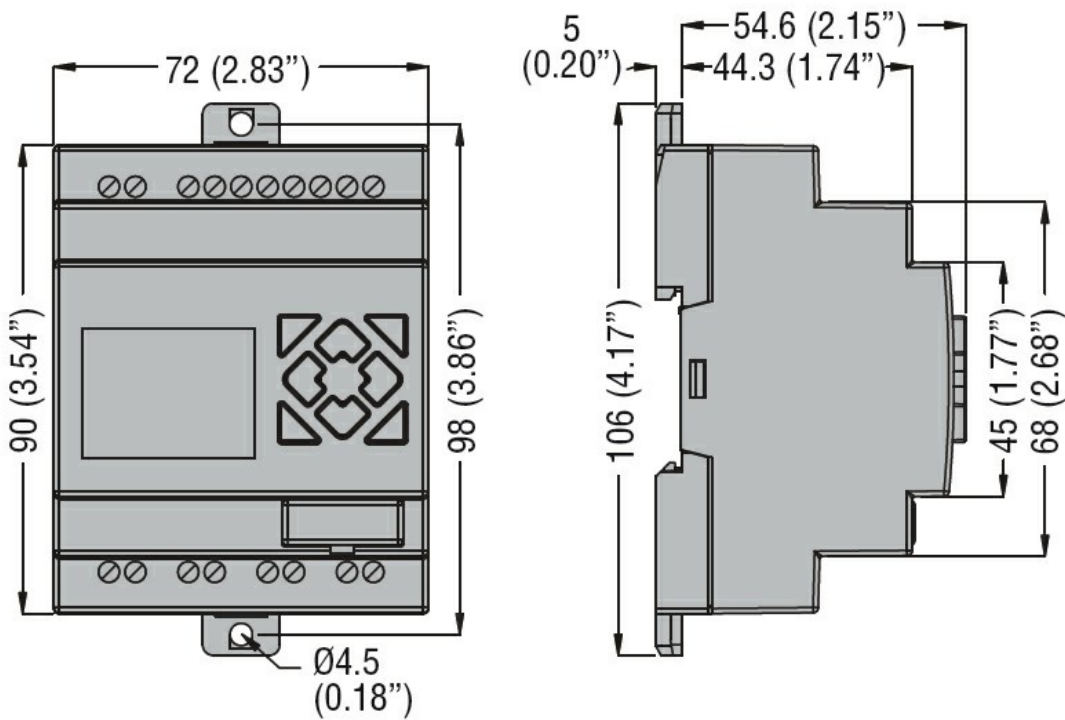
Wiring diagrams
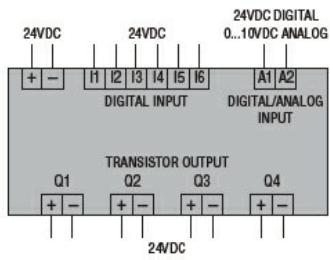
Certifications and compliance

Compliance

CSA C22.2 n° 142
IEC/EN 61131-2
UL508

Certificates

cULus
EAC

ETIM classification

ETIM 8.0

EC001417 - Logic module