



Product designation			Micro PLC - Base module with RS485 onboard
Product type designation			LRD20RD024P1
Auxiliary supply voltage			24VDC
Number of inputs	Nr.		8 digital + 4 digital/analog
Number of outputs	Nr.		8 relay
Max I/O number			20 (12 inputs + 8 outputs) up to 44 with LRE modules

Power supply

Rated auxil. supply voltage			24VDC
Operating voltage range			20.4...28.8VDC
Average current consumption	mA		185
Power consumption Max	W		5

Digital inputs

Number of digital input	Nr.		8 + 4 digital/analog
Rated voltage	V		24VDC
Input signals		State 0 (OFF) State 1 (ON)	<5VDC >15VDC
Response time		0 to 1 (OFF-ON) 1 to 0 (ON-OFF)	4ms (0.5ms for high speed) 4ms (0.3ms for high speed)

Analog inputs

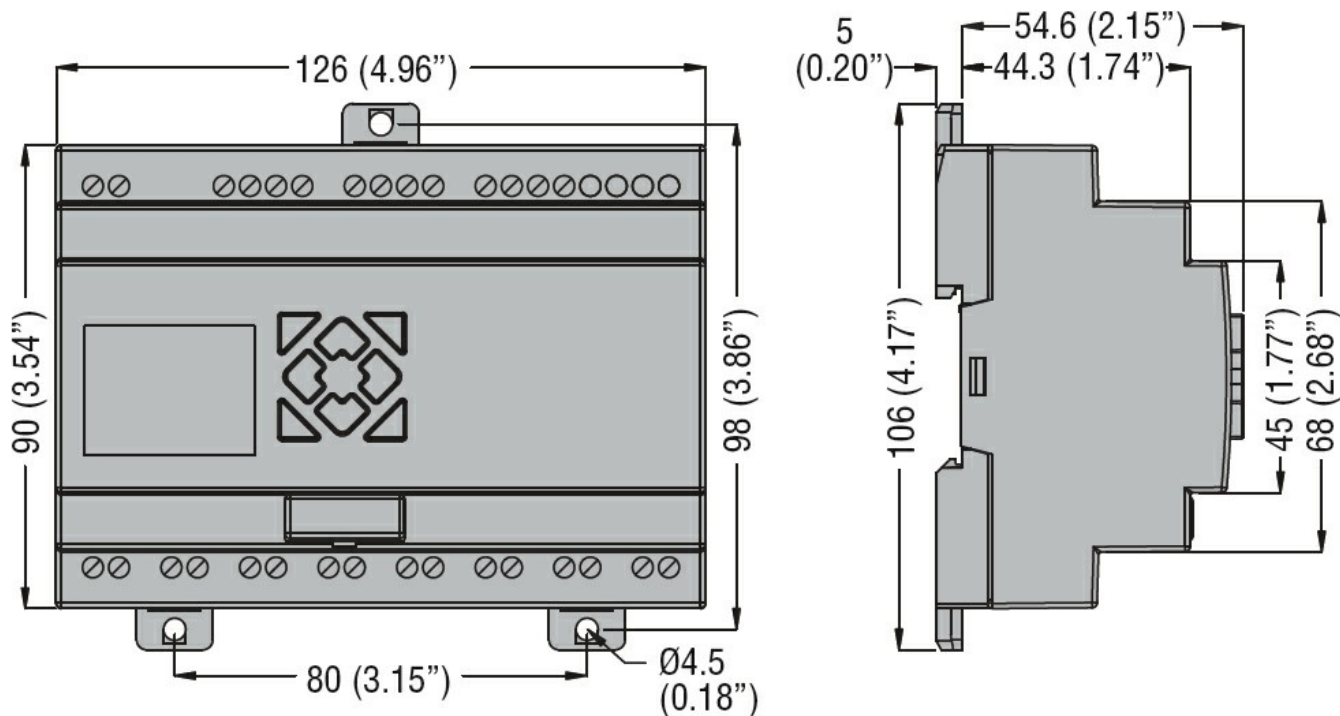
Number of analog input	Nr.		4 digital/analog
Analog input type			Voltage inputs
Inputs signal range	V		0...10
Resolution			0.01V
Bit of conversion	bit		8
Current consumption at		10VDC	mA <0.17mA
Input impedance		kΩ	>40
Admissible overload		VDC	28
Sampling time		ms	5...20ms(LADDER), 2...10ms (FBD)
Maximum cable length		m / ft	≤30m/98ft (shielded wire)

Digital outputs

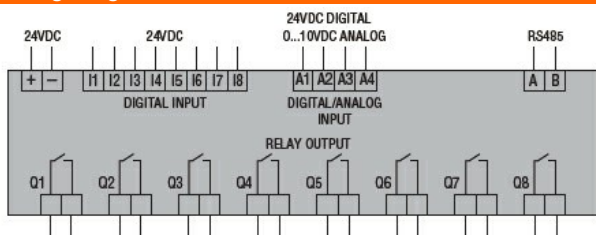
Number of digital output	Nr.		8
type			Relay

System resources

Display			LCD display, 4 lines x 16 characters		
Communications					
Type of communication port			RS485		
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	126 x 106 x 59.6
Weight				g	360
Dimensions					



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