



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)		<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.			4 digital/analog
Analog input type				Voltage inputs
Inputs signal range	V			0...10
Resolution				0.01V
Bit of conversion	bit			8

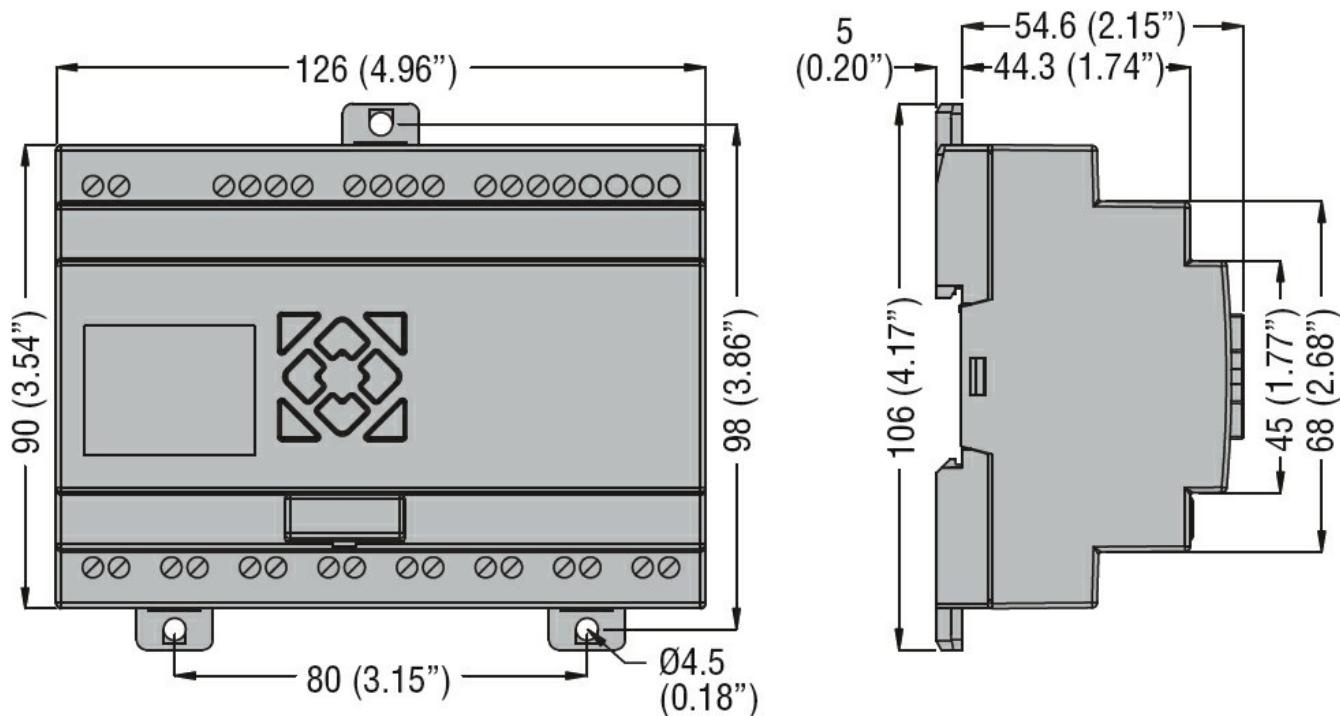
Current consumption at		10VDC	mA	<0.17mA
Input impedance			kΩ	>40
Admissible overload			VDC	28
Sampling time			ms	5...20ms(LADDER), 2...10ms (FBD)
Maximum cable length			m / ft	≤30m/98ft (shielded wire)

Digital outputs

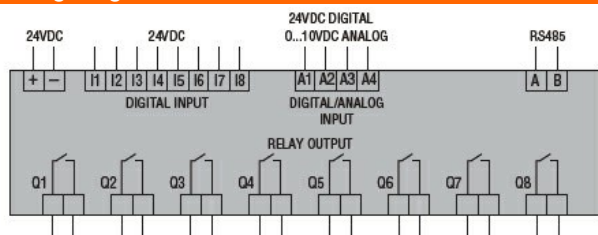
Number of digital output	Nr.			8
type				Relay

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