



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

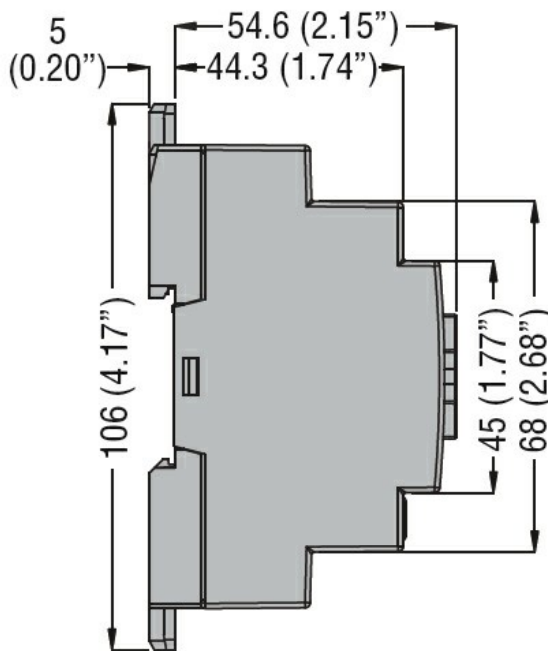
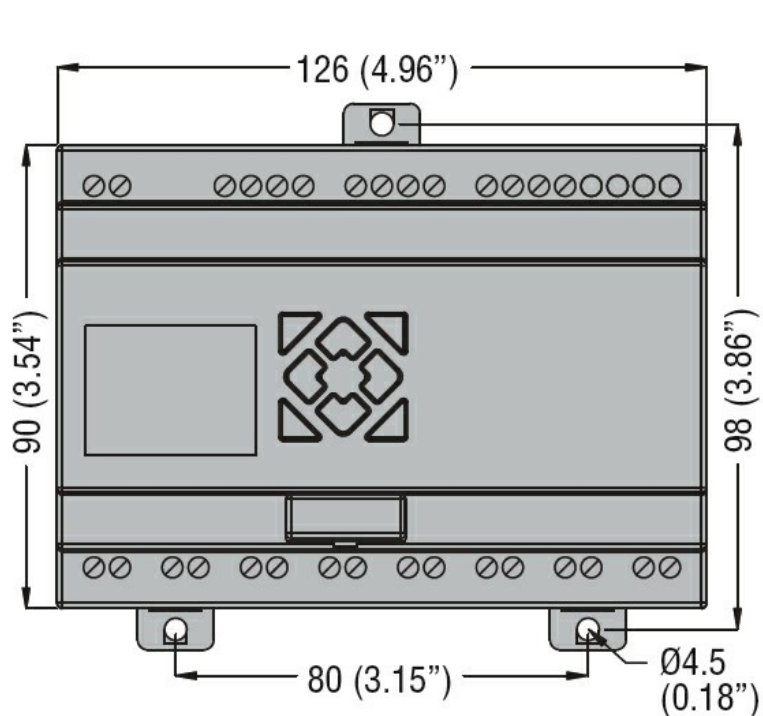
Current consumption at	10VDC	mA	<0.17mA
Input impedance		kΩ	>40
Admissible overload		VDC	28
Sampling time		ms	5...20ms(LADDER), 2...10ms (FBD)
Maximum cable length		m / ft	≤30m/98ft (shielded wire)

#### Digital outputs

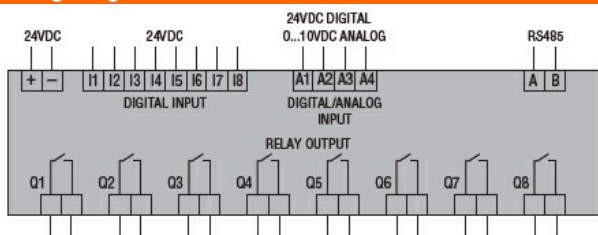
Number of digital output	Nr.		8
type			Relay

#### 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