



Product designation	Micro PLC - Base module	
Product type designation	LRD20RD012	
Auxiliary supply voltage	12VDC	
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	12VDC	
Operating voltage range	10.4...14.4VDC	
Average current consumption	mA	265
Power consumption Max	W	5

#### Digital inputs

Number of digital input	Nr.	8 + 4 digital/analog
Rated voltage	V	12VDC
Input signals		
	State 0 (OFF)	<2.5VDC
	State 1 (ON)	>7.5VDC

#### 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	14
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.	8
type		Relay

#### System resources

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	mm <sup>2</sup>	0.14
max	mm <sup>2</sup>	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

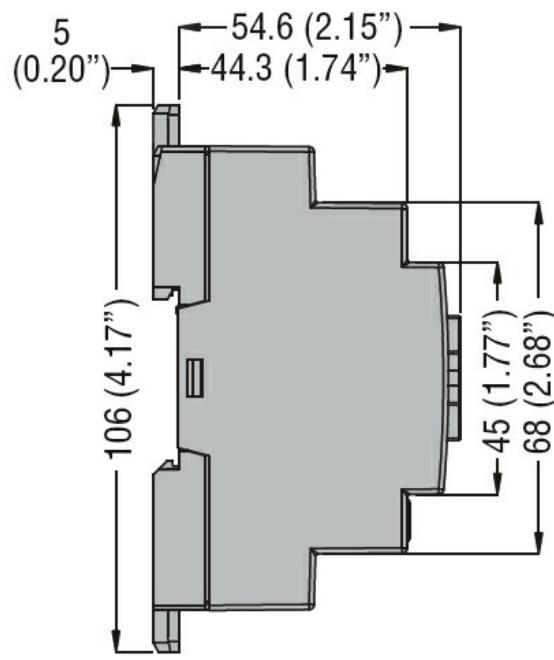
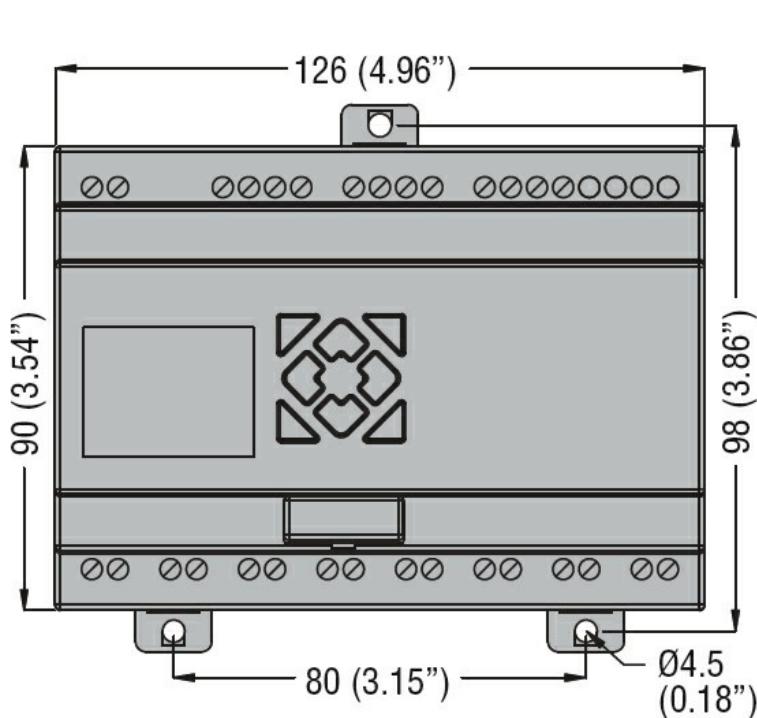
Dimensions (W x H x D)

mm 126 x 106 x 59.6

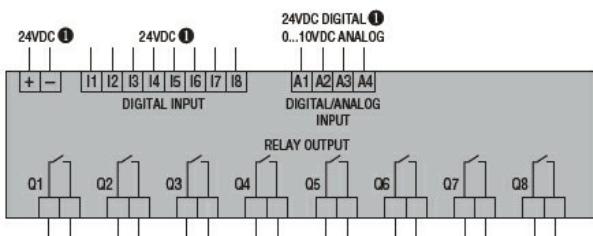
Weight

g 360

**Dimensions**



**Wiring diagrams**



① 12VDC for LRD20R D012.

### 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