



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) State 1 (ON)	<2.5VDC >7.5VDC
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	14
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

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 ²	0.14
max	mm ²	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

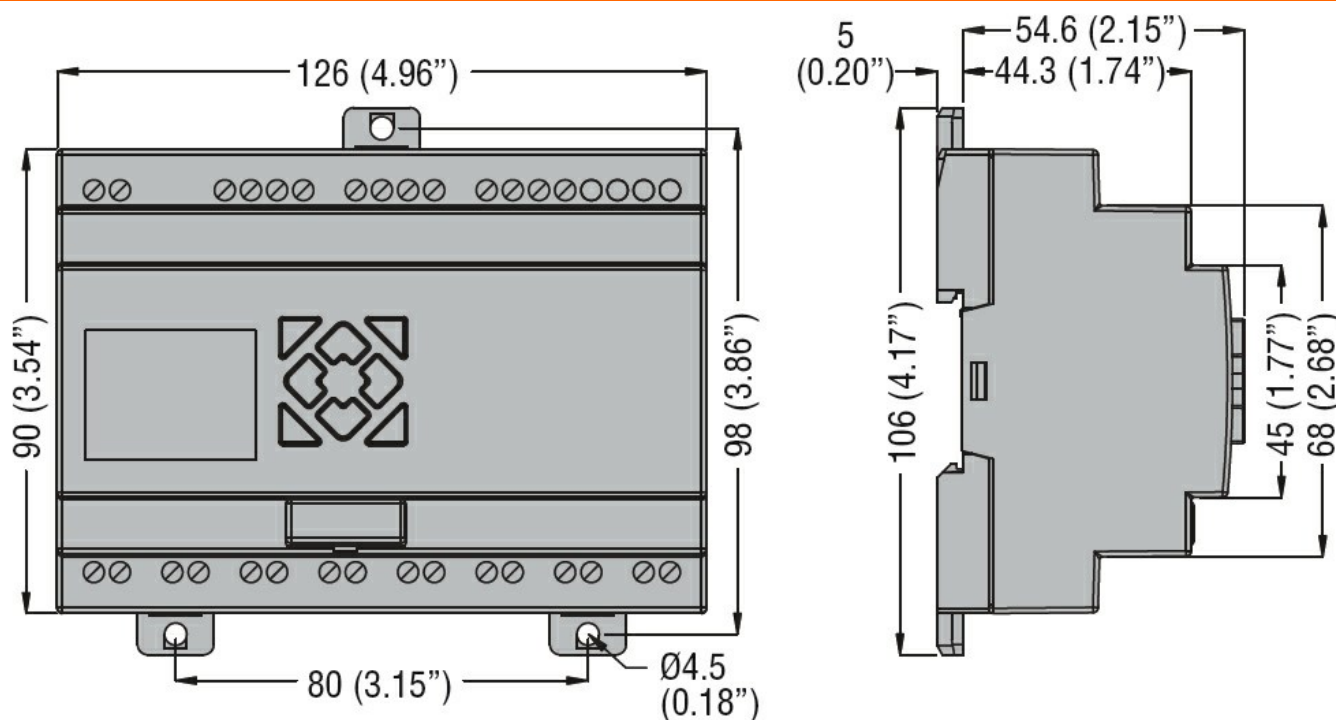
Dimensions (W x H x D)

mm 126 x 106 x 59.6

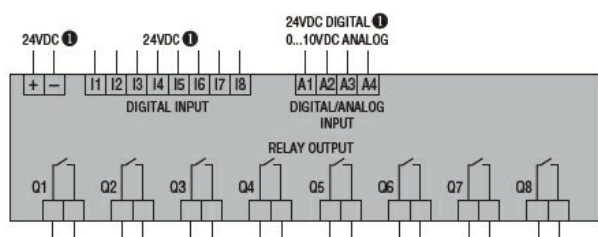
Weight

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