



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)
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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
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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

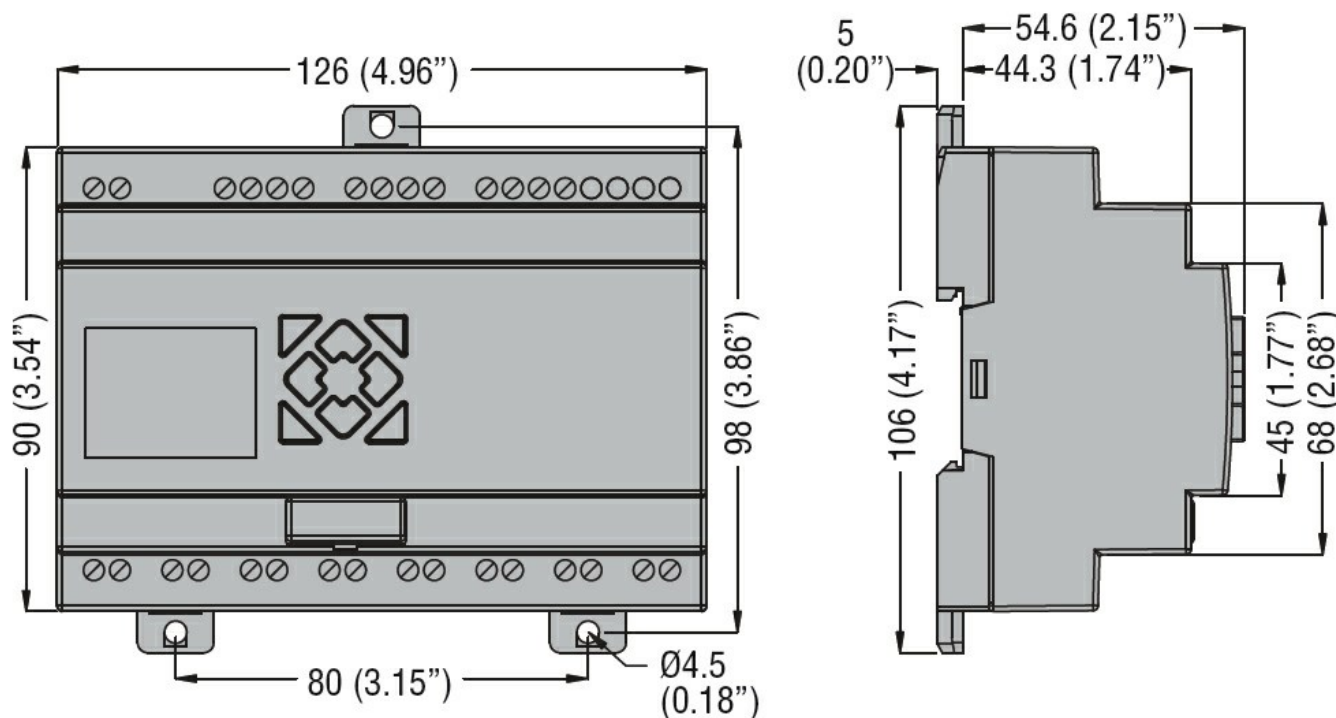
Ambient conditions

Temperature			
Operating temperature	min °C -20 max °C +55		
Storage temperature	min °C -40 max °C +70		
Relative humidity	%	20...90% without condensation	

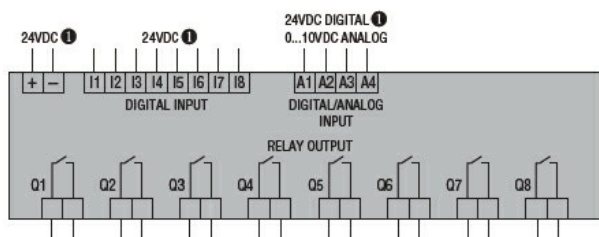
Housing

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



❶ 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