



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 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

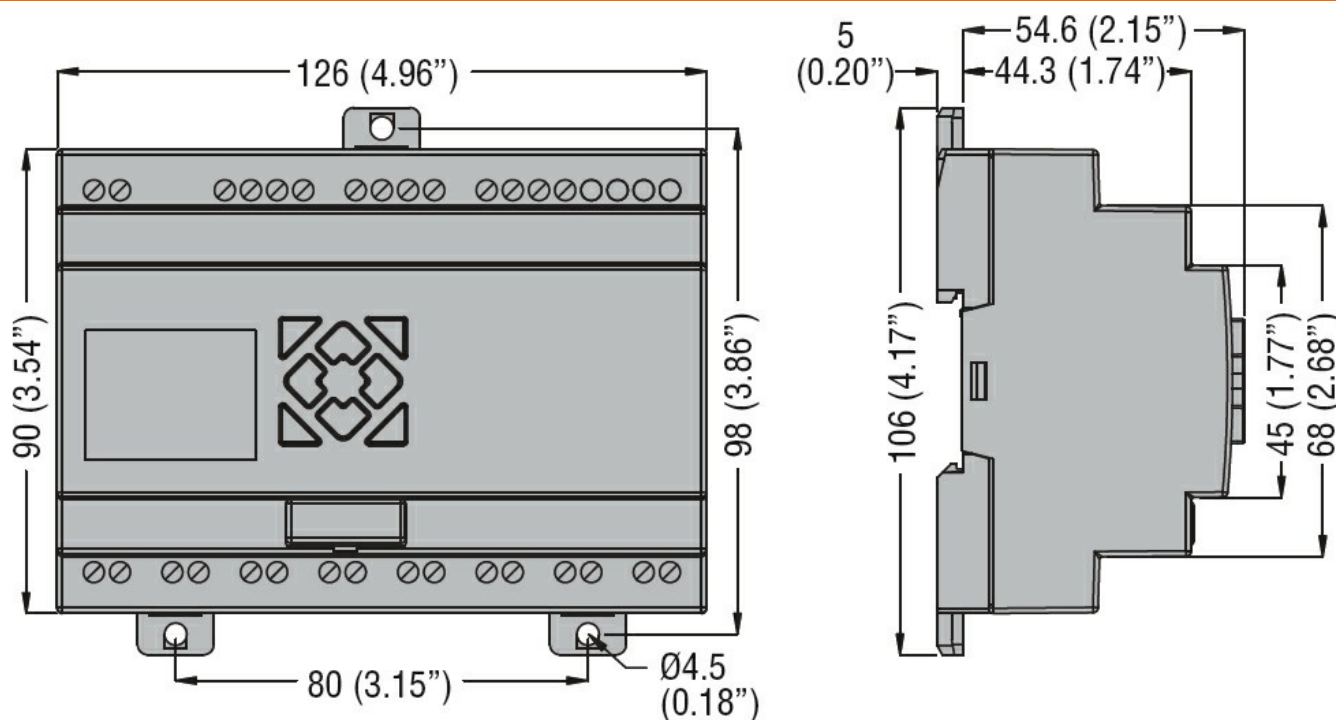
Ambient conditions

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

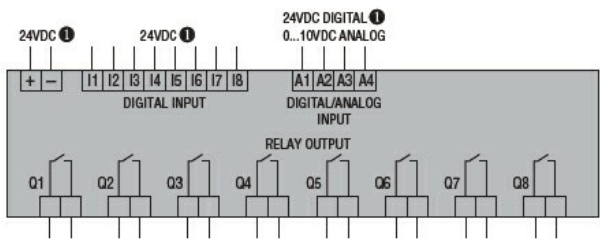
Housing

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