



Product designation

Product type designation

Auxiliary supply voltage

Number of inputs

Number of outputs

Max I/O number

Training kit with LRD20RD024 mounted on input/output simulation board LRDDEM20RD024  
24VDC  
Nr. 8 digital + 4 digital/analog  
Nr. 8 relay  
20 (12 inputs + 8 outputs) up to 44 with LRE modules

#### Power supply

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
		kΩ >40
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 type	Nr.	8 Relay
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**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 <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
Weight	g 1060

**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
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