



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) State 1 (ON)	<5VDC >15VDC
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	28
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
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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 max	°C °C	-20 +55
	Storage temperature	min max	°C °C	-40 +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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