



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 |
|---------|--------------------------------------|

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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