| | | |
|---|---|---|
| Product designation | | Micro PLC - Base module with RS485 onboard |
| Product type designation | | LRD20RD024P1 |
| Auxiliary supply voltage | | 24VDC |
| 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 | | 24VDC |
| Operating voltage range | | 20.4...28.8VDC |
| Avarage 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 |
| Input impedance | kO | >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 |
| **Communications** | | | | |
| Type of communication port | | | | RS485 |
| **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 | mm² | 0.14 |
| | | max | mm² | 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** | | | | |
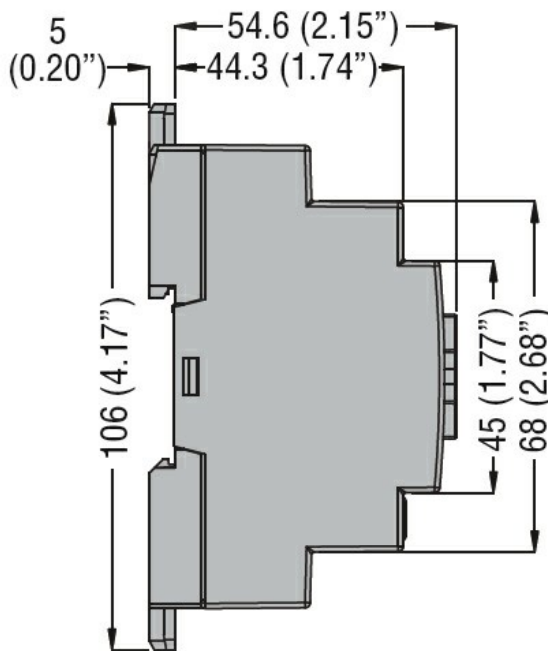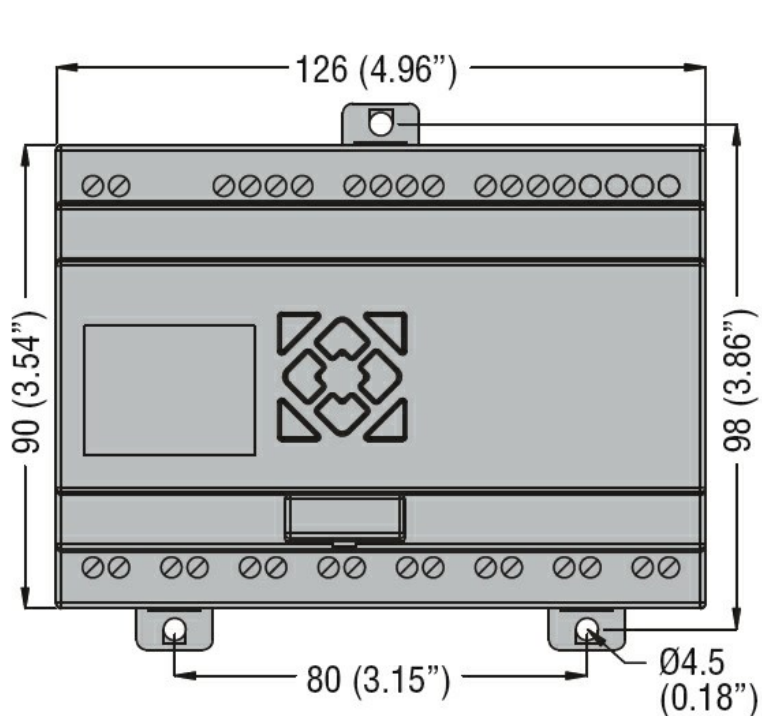
## Wiring diagrams
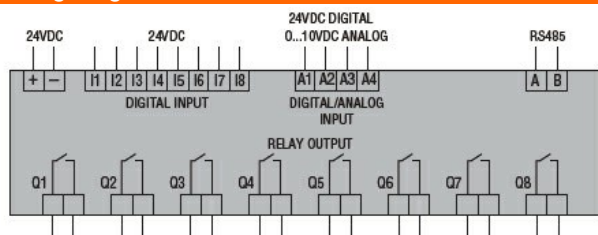


## Certifications and compliance

Compliance

| | |
|---|---|
| CSA C22.2 n° 142 | |
| IEC/EN 61131-2 | |
| UL508 | |

Certificates

| | |
|---|---|
| cULus | |
| EAC | |

## ETIM classification

ETIM 8.0

EC001417 - Logic module

LRD20RD024P1   The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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