

IP20 Unmanaged Ethernet Switches **molex**

IP20 Unmanaged Ethernet Switches are PROFINET system compliant low-profile switches with extended temperature range, making them ideal for diverse industries and in cabinet applications

Features and Advantages



Metallic enclosure
Provides IP20 protection for factory floor usage

Ease of use features
Easy set-up and integration, saving time and cost

PROFINET system compliant
Enables quick and secure data exchange

Versatile metal shell housing
Enables both rail DIN and screw set-up (5 port units)

LED power indicator
Easy diagnosis

Extended temperature range
Withstands harsh environments

Compact footprint
Provides space savings

Traffic flow control
Avoids network congestion

Markets and Applications

Industrial Automation

- Material handling
- Food and beverage
- Packaging and line control systems
- Mining and metal
- Water and waste management
- Substation control
- Robot cell control
- HMI/SCADA

Industrial

- I/O Connections
- Paper and pulp manufacturing
- Semiconductor

Automotive

- Connectivity



Packaging



Automotive Manufacturing



Food and Beverage



Water Management

IP20 Unmanaged Ethernet Switches



Specifications

| REFERENCE INFORMATION | | | | |
|------------------------------------|---------------------------------|---|------------------------|------------------------|
| | DRL-250MB | DRL-280MB | DRL-250MG | DRL-280MG |
| Standards | | | | |
| IEEE 802.3 | 10Base-T | 10Base-T | 10Base-T | 10Base-T |
| IEEE 802.3u | 100Base-TX | 100Base-TX | 100Base-TX | 100Base-TX |
| IEEE 802.3ab | - | - | 1000Base-T | 1000Base-T |
| IEEE 802.3x | Flow control | Flow control | Flow control | Flow control |
| IEEE 802.3az (energy efficiency) | N | Y | Y | Y |
| IEEE 802.1p (QoS) | N | Y | Y | Y |
| PHYSICAL | | | | |
| | DRL-250MB | DRL-280MB | DRL-250MG | DRL-280MG |
| Switch fabric | 1.0 Gbps | 1.6 Gbps | 10 Gbps | 16 Gbps |
| Mac table size | 2K | 8K | 2K | 8K |
| Jumbo frame size | 1.538K | 9K | 9K | 9K |
| ELECTRICAL | | | | |
| | DRL-250MB | DRL-280MB | DRL-250MG | DRL-280MG |
| Input voltage | 18 to 30V DC | 9 to 57V DC | 9 to 48V DC | 9 to 57V DC |
| Connection | Terminal block | Terminal block | Terminal block | Terminal block |
| Power input polarity protection | Yes | Yes | Yes | Yes |
| Power consumption (max.) | 3W | 5W | 4W | 5W |
| Surge protection | Yes (3/6kV) | Yes (3/6kV) | Yes (3/6kV) | Yes (3/6kV) |
| ESD protection | Yes (8/15kV) | Yes (8/15kV) | Yes (8/15kV) | Yes (8/15kV) |
| Overload current | Yes | Yes | Yes | Yes |
| MECHANICAL AND ENVIRONMENTS | | | | |
| | DRL-250MB | DRL-280MB | DRL-250MG | DRL-280MG |
| Housing | Metal case (IP30 protection) | | | |
| Mounting | DIN rail, wall mount (optional) | | | |
| Operating temperature | -40 to +70°C | | | |
| Operating humidity | 10 to 95% RH (non-condensing) | | | |
| Storage humidity | 5 to 95% RH (non-condensing) | | | |
| Weight (g) | 145 | 480 | 145 | 480 |
| Dimension (W x H x D) (mm) | 23.40 x 109.20 x 73.80 | 46.00 x 116.00 x 99.60 | 23.40 x 109.20 x 73.80 | 46.00 x 116.00 x 99.60 |
| STANDARDS AND CERTIFICATION | | | | |
| CE | EMI | FCC Part-15 Subpart B Class A, EN55022 (Class A) EN55011 (2009 Class A), EN 61000-6-4 | | |
| | EMS | EN55024, EN61000-6-2, EN61000-4-2 (ESD: Level 3), EN61000-4-3 (RS: Level 3), EN61000-4-4 (Burst: Level 3), EN61000-4-5 (Surge: Level 3), EN61000-4-6 (CS: Level3), DRL250MG: EN61000-4-8 and EN61000-4-11 | | |
| Approval and test | Shock | IEC 60068-2-27 | | |
| | Freefall | IEC 60068-2-32 | | |
| | Vibration | IEC 60068-2-6 | | |
| | UL, cUL and CSA ID | ES00772 | | |

Ordering Information

| Order No. | Old Engineering Number | Component | Data Speed (Mb) | Ports |
|-----------------------------|------------------------|--|-----------------|-------|
| 112036-1000 | DRL-250MB | Industrial unmanaged Ethernet switch | 10/100 | 5 |
| 112036-1001 | DRL-280MB | | 10/100 | 8 |
| 112036-1002 | DRL-250MG | Industrial unmanaged Ethernet switch, PROFINET compliant | 10/100/1000 | 5 |
| 112036-1003 | DRL-280MG | | 10/100/1000 | 8 |

www.molex.com/link/ethernet-switches.html

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