

# 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

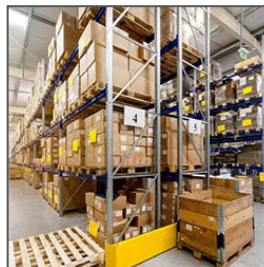
- Material handling
- Food and beverage
- Packaging and line control systems
- Mining and metal
- Water and waste management
- Substation control
- Robot cell control
- HMI/SCADA

### 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
<b>Standards</b>				
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
<b>PHYSICAL</b>				
	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
<b>ELECTRICAL</b>				
	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
<b>MECHANICAL AND ENVIRONMENTS</b>				
	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
<b>STANDARDS AND CERTIFICATION</b>				
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
<a href="#">112036-1000</a>	DRL-250MB	Industrial unmanaged Ethernet switch	10/100	5
<a href="#">112036-1001</a>	DRL-280MB		10/100	8
<a href="#">112036-1002</a>	DRL-250MG	Industrial unmanaged Ethernet switch, PROFINET compliant	10/100/1000	5
<a href="#">112036-1003</a>	DRL-280MG		10/100/1000	8

[www.molex.com/link/ethernet-switches.html](http://www.molex.com/link/ethernet-switches.html)

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