

IP67-rated Harsh-Duty Unmanaged Ethernet Switches provide customers with a fast, rugged and secure on-machine Ethernet connection to reduce network cabling, lower installation costs, and eliminate wiring errors

Features and Benefits

Ultra-Lock® M12 connection system	Push-to-lock technology for fast and secure network connections. Also accepts standard threaded M12
NEMA 6 and IP67-rated environmental protection	Withstands dust, low pressure-wash and submersion in water
30mm and 60mm width formats with standard hole patterns and low-profile height	Slim build size meets small space requirements. Easy mounting using standard machine extrusions
Auto-learning features; no software or configuration required	Plug-and-play capabilities. Suitable for both the novice and expert network installation
Operating temperature range: -40 to +75°C	Suitable for extreme temperature applications
Available in 5- and 8-port versions	Optimized port count to meet customer application requirements
Ethernet 10/100BaseTX full wire-speed, non-blocking, auto-sensing, auto-crossing, auto-negotiation	Flexibility for a broad range of applications
LED indicators	Quick diagnostics Visual indication

Markets and Applications

Industrial Automation

- Manufacturing cells
- Plant-floor data networks

Machine Builders

- Robotics
- CNC machines
- Packaging machines
- Textiles
- Presses

Mobile Equipment

- Mining
- Agriculture

Aerospace / Defense

- Ground Vehicles

Entertainment

- Theme parks
- Concerts

Signage and advertising

- Traffic signs
- Billboards

Transportation

- Railways
- Subways
- Marinas

Harsh-Duty Unmanaged Ethernet Switches

112111 5-Port Switch

112105 8-Port Switch



8-Port Series 112105 (DRL-780, DRL-781)

5-Port Series 112111 (DRL-750)



8-Port Series 112105 (DRL-782)

Harsh-Duty Ethernet Switches



Robotics



Plant Floor Data Networks



Drilling Machines (Mining)

Specifications

REFERENCE INFORMATION

Characteristics and Performance

Switch Type: Unmanaged
(Store and Forward)
Ports: 10BaseT/100BaseTx M12
Latency (10Mb): 16µs + frame time
Latency(100Mb): 5µs + frame time
Duplex Operation: Full or half
Mounting: Screw Mount
Power input: Redundant input
terminals
Voltage: 9 to 36V DC (continuous)
Isolation: 1500 VRMS 1 minute

Operating temp:
-40 to +75°C

Storage temp: -40 to +85°C

Humidity: 5 – 95% RH non condensing

5 Port (DRL-750)
Input power(max): 2.0W
Dimensions: 176 x 30 x 34mm
Weight: 230g

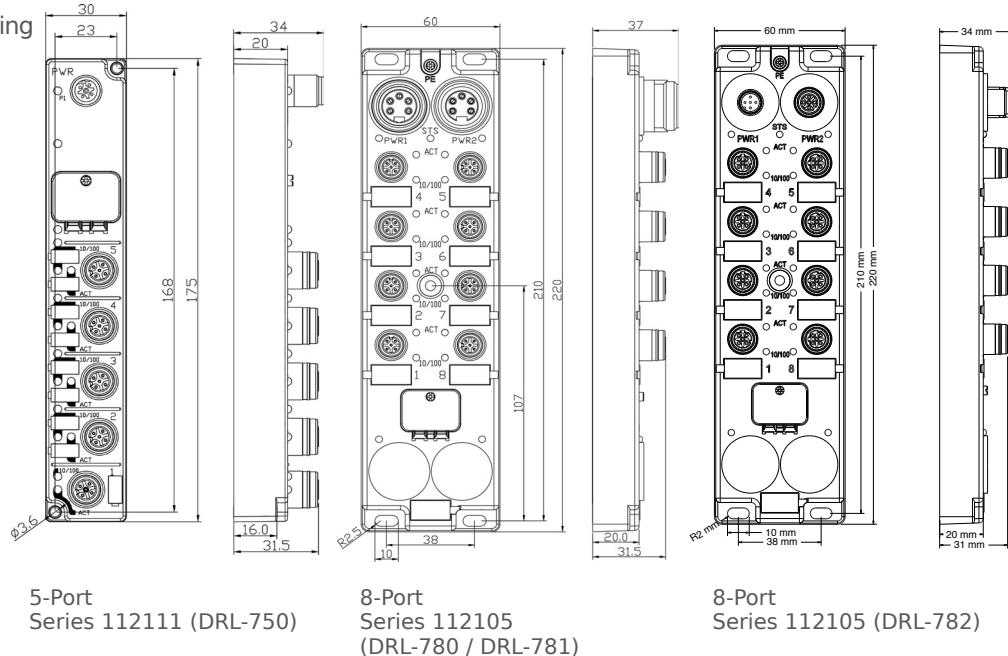
8 Port (DRL-780, DRL-782)
Input power(max): 2.4W
Dimensions: 220 x 60 x 37mm
Weight: 580g

8 Port (DRL-782)
Input power(max): 2.4W
Dimensions: 220 x 60 x 34mm
Weight: 580g

References

Vibration: 7g (IEC68-2-29)
Shock: 50g (IEC68-2-29)
Electrical Safety: EN61010-1 (IEC61010)
EMI Emissions:
8 Port (DRL-78x): EN55011 Class A
5 Port (DRL-750): Class B
EMC Immunity: EN61326, EN61000-4-4,
EN61000-4-5,
EN61000-4-2;
5 Port (DRL-750):
4Kv contact/8Kv air
8 Port (DRL-780, DRL-781, DRL-782):
4Kv contact/8Kv air

Harsh-Duty Unmanaged Ethernet Switches



Ordering Information

Order No.	Engineering No.	No. of Ports (M12)	Housing	Power Input	Degree of Protection	Temperature Range	
112111-5001	DRL-750	5	30mm	M12	IP67	-40 to +75°C	
112105-5002	DRL-780	8		Mini-Change® 5-pole 7/8			
112105-5004	DRL-781			Mini-Change® 4-pole 7/8			
112105-5006	DRL-782			M12			