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IP67-rated Direct-Link® 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

Direct-Link® Harsh-Duty Ethernet Unmanaged Switches

112111 5-Port Switch
112105 8-Port Switch

8-Port Direct Link®
Model 112105
(DRL-780, DRL-781)

5-Port Direct Link®
Model 112111 (DRL-750)

8-Port Direct Link®
Model 112105 (DRL-782)

Harsh-Duty Ethernet Switches

Robotics

Plant Floor Data Networks

Drilling Machine (Mining)

molex®

Direct-Link®
Harsh-Duty
Ethernet
Unmanaged
Switches

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: 9-36V 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
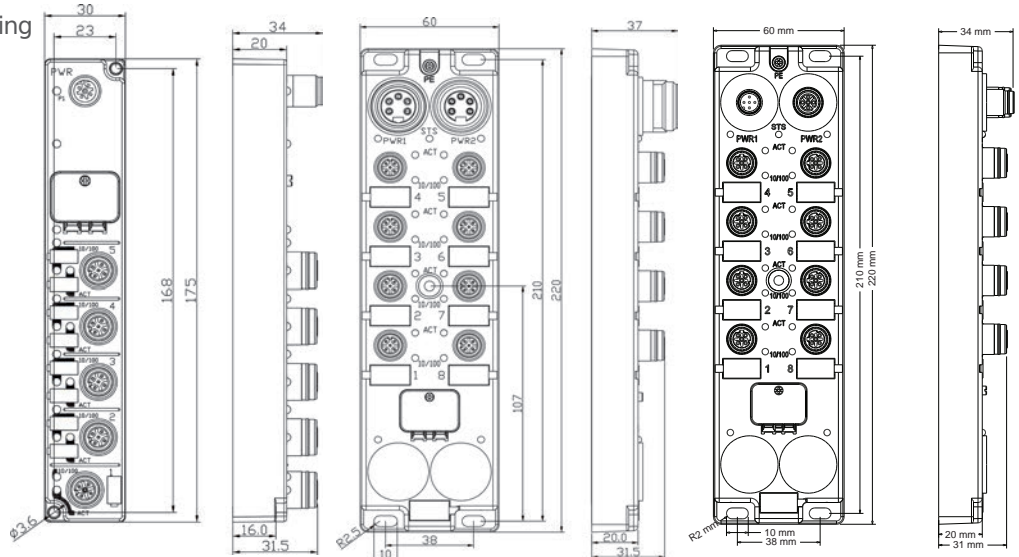Dimensions: 176 x 30 x 34mm
Weight: 230g

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): EN55011Class 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, and
DRL-782):
4Kv contact/8Kv air

5-Port Direct Link® Model 112111 (DRL-750)

8-Port Direct Link® Model 112105 (DRL-780 / DRL-781)

8-Port Direct Link® Model 112105 (DRL-782)

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	60mm	Mini-Change® (5-pole)		
112105-5004	DRL-781			Mini-Change® (4-pole)		
112105-5006	DRL-782			M12		

www.molex.com/link/directlink750-780.html