INTRODUCTION



Brad Direct-Link switches provide customers with a faster, simpler and more secure Ethernet connection than any other system on the market.

Slim dimensions are sized to fit standard extrusions for easy mounting. Auto-learning features make each unit

truly plug-and-play, suitable for both the novice and

expert in network setup.

Operating temperature ratings of -20 to +75°C ensure that networks linked using the harsh-duty switches can run in extreme environments. Coupled with Class 1, Division 2 certification these switches can also be used in Oil and Gas, Mining, and utility applications.

Brad® Direct-Link® 750&780 Harsh Duty Unmanaged Switches

1121115 5-Port Modules 1121055 8-Port Modules

As our world becomes more connected, an increasing number of manufacturers and installers are specifying Ethernet devices for their harsh applications. The Brad family of rugged connectivity products is a leading product line provider of Ethernet infrastructure for Molex.

Protected cabinet Ethernet switch installations away from machinery require long wiring runs, enclosures and glanding. The Molex Direct-Link, harsh-duty, Ethernet switches have been developed to allow customers to convert from traditional in-cabinet to on-machine mounting, moving the switch closer to the machine and thereby reducing cabling.

The Molex Ultra-Lock® system of connectors and cordsets is a major component in the Direct-Link Harsh-Duty Switches line.

Available in 5-port and 8-port versions, the Molex durable switches with push/pull connectors save cabling and reduce installation time and cost compared with existing cabinet installations. They provide easier system maintenance and produce a seal when connected regardless of labour skill. The connections are tested to IP69K ratings to ensure operation through dust, pressure-wash and immersion in water. Mechanical keying and radial seals eliminate the risk for operator error commonly found in other systems.



FEATURES AND BENEFITS

- Ultra-Lock® Connection system faster, simpler and more secure connections than any other system on the market
- NÉMA 6 and IP69k rated environmental protection - withstands dust, pressure-wash and submersion in water
- Class 1 Div 2 rated suitable for Oil and Gas markets where extremely hazardous gases may be present
- Operating temperature to -20 to +75°C enables installation in extreme temperature applications
- 30mm and 60mm formats with standard hole patterns - allows use of standard extrusion members and mounting holes for installation
- Auto-learning with no software or configuration required - plug-and-play capabilities and lessskilled labour able to install systems

MARKETS AND APPLICATIONS

- Industrial Automation
 - Manufacturing cells
 - Plant-floor data networks
- Machine Builders
 - Robots, CNC, packaging machines, textiles, presses
- Entertainment
 - Theme parks, rides
 - Concerts and carnivals
- Signage and advertising
 - Traffic signs, billboards
- Non-Automotive Transportation
 - Railways, subways, marinas





SPECIFICATIONS



Brad® Direct-Link® 750&780 Harsh Duty Unmanaged Switches

1121115 1121055 5-Port Modules 8-Port Modules

Characteristics and Performance

Switch Type: Unmanaged

(Store and Forward)

Ports: 10BaseT/100BaseTx M12

Latency (10Mb): 16µs + frame time 5µs + frame time

Duplex Operation: Full or half Mounting: Full or half

Power input: Redundant input terminals

Input power(max): 2.0W (DRL-75x), 2.4W (DRL-78x)

Voltage: 9-36VDC (continuous) Isolation: 1500 VRMS 1 minute Operating temp: -20 to +75°C Storage temp: -40 to +85°C

Humidity: 5 – 95% RH non condensing Dimensions: 176 x 30 x 34 (DRL-75x) 220 x 60 x 37 (DRL-78x)

Weight: 230g (DRL-75x) 580g (DRL-78x)

References

Vibration: 7g (IEC68-2-29)

Shock: 50g (IEC68-2-29)

Electrical Safety: EN61010-1 (IEC61010)

EMI emissions: FCC part 15, ICES 003,

EN55011 Class A (DRL-78x),

Class B (DRL-750)

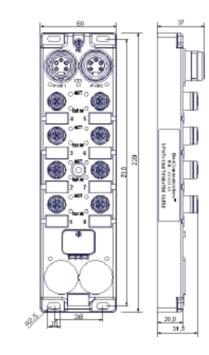
EMC immunity: EN61326, EN61000-4-4,

EN61000-4-5, EN61000-4-2; 8Kv contact/16Kv Air (DRL-75x) 4Kv contact/8Kv Air

(DRL-78x)

UL: File number - pending

Hazardous Rating: Class 1 Division 2 certification







ORDERING INFORMATION

| Order No. | Material Number | Description | # of Ports | Power | Samples |
|-------------|-----------------|-------------------------------------|------------|----------------------|---------|
| 1121115001 | DRL-750 | IP67 Fast Ethernet Unmanaged Switch | 5 | M12 | 6201 |
| 1121055002 | DRL-780 | IP67 Fast Ethernet Unmanaged Switch | 8 | Mini-Change® (5-pin) | 6201 |
| Coming soon | DRL-781 | IP67 Fast Ethernet Unmanaged Switch | 8 | Mini-Change® (4-pin) | 6201 |

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

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