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**

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

**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

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**Harsh-Duty Ethernet Switches**

- **8-Port Series 112105 (DRL-780, DRL-781)**
- **5-Port Series 112111 (DRL-750)**

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**Images:**
- 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:**
  - 5 Port (DRL-750):
    - 4Kv contact/8Kv air
  - 8 Port (DRL-780, DRL-781, DRL-782):
    - 4Kv contact/8Kv air

#### Ordering Information

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Engineering No.</th>
<th>No. of Ports (M12)</th>
<th>Housing</th>
<th>Power Input</th>
<th>Degree of Protection</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>112111-5001</td>
<td>DRL-750</td>
<td>5</td>
<td>30mm</td>
<td>M12</td>
<td>IP67</td>
<td>-40 to +75°C</td>
</tr>
<tr>
<td>112105-5002</td>
<td>DRL-780</td>
<td>8</td>
<td>60mm</td>
<td>Mini-Change® 4-pole 7/8</td>
<td>IP67</td>
<td>-40 to +75°C</td>
</tr>
<tr>
<td>112105-5004</td>
<td>DRL-781</td>
<td>8</td>
<td>60mm</td>
<td>Mini-Change® 5-pole 7/8</td>
<td>IP67</td>
<td>-40 to +75°C</td>
</tr>
<tr>
<td>112105-5006</td>
<td>DRL-782</td>
<td>8</td>
<td>60mm</td>
<td>M12</td>
<td>IP67</td>
<td>-40 to +75°C</td>
</tr>
</tbody>
</table>

Ordering Information: 112111 (DRL-750) 112105 (DRL-780 / DRL-781)

Equipment ordered contains no provisions for industrial installation on public electrical networks.