### Brad® Micro-Change® (M12) Connectors
- Micro-change connectors are designed to withstand harsh environments
- Moisture resistant construction provides NEMA 6P and IP68 protection
- Allow fast and simple replacement of 12 to 18mm sensors, encoders and other input and output devices
- Available in 2- through 5-, 8- and 12-pole IEC compliant configurations
- Single- and dual-keyway designs

### Brad® Ultra-Lock® (M12) EX Connection System for Zone 2 Hazardous Locations
- Provide process automation installers a safe, quick connection interface for instrumentation and control devices in potentially explosive and hazardous areas

### Brad® Micro-Change® M12 Harsh-Duty Receptacles
- Offer a sealed connection with superior EMI/RFI shielding in high-vibration systems
- Eliminate EMI shielding issues associated with plastic housings
- System provides reliability in harsh-duty applications while keeping costs to a minimum
- Ideal for Class 2 applications
- Waterproof sealed and IP67, IP69K compliant, able to withstand high-pressure wash down
<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Brad® Micro-Change® M12 CAT6A Connector System** | • Superior signal integrity in terms of speed in the M12 form factor achieved through 360 degree shielded connector interface design  
• Brad Micro-Change M12 CAT6A system achieves up to 10 Gbps Ethernet  
• Ideal for high-speed data transfer applications in harsh environments that may be subject to vibration |
| **Brad® Micro-Change® M12 Circular Hybrid Technology (CHT) Connector** | • Combines Cat5e data speed with power lines for optimal performance  
• Fully shielded 4-pin array (2 shielded pairs) is enclosed by a wrap-around metal tube shield, which allows for optimum performance  
• Two overlapping metal tubes channel the signal through the connector without disturbance of cross-talk and EMI (electro-magnetic interference)  
• Nickel-plated brass cordset and corrosion-resistant hardware assures compatibility with demanding environments |
| **Brad® Direct-Link® Harsh-Duty Switches** | • Durable switches with push/pull connectors, save cabling and reduce installation time a sealed connection with superior EMI/RFI shielding in high-vibration systems  
• Tested to IP67 ratings to ensure operation through dust, pressure-wash and immersion in water  
• Mechanical keying and radial seals eliminate the risk for operator error  
• Operating temperature ratings of -40 to +75°C ensure that networks linked using the harsh-duty switches can run in extreme environments |