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**FOR IMMEDIATE RELEASE**

**Hannover Fair 2016 – Hall 9 Stand F76**

**Molex Communicates on EtherNet/IP Using the CIP Safety Protocol in Harsh Environments**

*Brad HarshIO IP67 Modules for EtherNet/IP feature CIP Safety technology that delivers significant operational advantages of protection and versatility for industrial safety applications*

**WALLDORF, Germany – 14<sup>th</sup> April 2016** – Molex, LLC introduces the Brad® HarshIO Ethernet modules to provide a reliable solution for connecting industrial safety controllers to sensors and actuators in harsh duty environments. Machine mountable in an IP67 rated housing, Brad HarshIO modules are ideally suited for industrial applications where liquids, dust or vibration may be present, and have been tested to withstand shock, high-vibration and high temperatures.

The modules are designed for safety applications, up SIL3 (Safety Integrity Level 3), Cat4/PLe, where communication over EtherNet/IP is needed to exchange safety control data and diagnostics information over a single Ethernet network. They offer 12 safe inputs and 4 safe outputs, supporting connection of single and dual channel safety devices - ideal for automotive applications running robots in cells. The digital inputs and outputs can configure test pulses to perform diagnostics and detect any broken wire, as well as short circuit or stuck to "1" or "0". An overmoulded, on-board memory key stores the configuration allowing module replacement within a minute without any special tools or re-commissioning.

Advanced features such as built-in 2-port Ethernet switch with DLR, diagnostic LEDs, and a flexible IP address-setup method make configuration and operation simple. The integrated 2-port switch allows the HarshIO module to be daisy-chained, allowing the user to wire the entire application without extra switches, thus achieving cost savings. Machine space is saved with the use of Molex Ultra-Lock™ M12 push-to-lock

connectors allowing sensing devices or actuators to plug directly into the I/O module, creating an IP67 environmentally sealed Ethernet connection. The modules are compact; the overall product dimensions being just 235 x 60 x 48mm (9.25" x 2.36" x 1.81").

The units are Rockwell Automation ready and are compatible with all Rockwell GuardLogix™ controllers. Commissioning is made easy with Molex's SNCT software and Rockwell Automation's Studio 5000 Logix Designer™ application. Certification and regulatory approvals for the modules include TÜV and ODVA, conforming to EN 61508 SIL3, Cat4/PLe according to ISO 13849-1, CE, RoHS, REACH, UL/cUL, Korean CC and China (CCC).

For more information about the Brad HarshIO IP67 Modules for EtherNet/IP, please visit [www.molex.com/link/bradindethernet.html](http://www.molex.com/link/bradindethernet.html).

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#### **About Molex:**

Molex brings together innovation and technology to deliver electronic solutions to customers worldwide. With a presence in more than 40 countries, Molex offers a full suite of solutions and services for many markets, including data communications, consumer electronics, industrial, automotive, commercial vehicle and medical. For more information, please visit [www.molex.com](http://www.molex.com).

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