

**ASME Channel Islands
2014 Project of the Year (POY)**

Project Name/ Title: **Micronor MR380 Fiber Optic Emergency Stop**

Nominated by (Association/Sponsor) **ASME Channel Islands**

Project Manager(s) (name and title of person receiving project award):
Daniel Montes, Project Manager/Manufacturing Engineer

Brief Description of Project (please limit to one paragraph – 3-5 sentences):

The MR380 Fiber Optic Emergency Stop is an innovative solution for Machine Safety and similar applications where a conventional electromechanical E-Stop cannot be used. The sensor offers EMI immunity, inherent safety, operates up to 2500 meters and is also MRI safe capable. The Fiber Optic E-Stop switch employs a photo interrupt scheme operating over a duplex multimode optical link that allows for reliable signal detection and implements a known default failure state.

Depressing the Switch interrupts the optical signal and the Controller provides both Double Pole Double Throw (DPDT) relay contacts and digital outputs for signaling and control. The controller will indicate if there is a broken fiber connection or depressed switch in the system which offers increased safety margin over conventional electrical emergency switches.

Key points of Project that merit recognition as project of the year:

1. Sensor is a innovative marriage of mechanical and optical design
2. Innovative fiber optic solution for Machine Safety and similar process applications where conventional electromechanical E-STOP cannot be used.
3. Sensor offers EMI immunity, inherent safety and can operate up to 2000 meters.
4. Multiple E-STOPS can be daisy chained.
5. MRI safe capable for medical applications

Key Project Personnel:

1. Daniel Montes, Project Manager/Manufacturing Engineer (Micronor)
2. Robert Rickenbach, President/Chief Engineer (Micronor)
3. Ron Boyer, Mechanical Engineer (Ron Boyer Design)
4. Dennis Horwitz, VP-Sales & Marketing (Micronor)

Please attach a few reasonable quality photos or a pictorial representation of project suitable to include in brochure (*.jpg files preferred)

