

THE

GATEKEEPER

Man-Machine Safeguarding News

November 2013

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Video

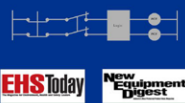
Schmersal Product Demo:



View our product demo video highlighting the features of the BDF200 control station. [View here.](#)

Schedule

WEBINAR:

Safety System
Control Architectures

Safety Webinar

Schmersal presented a one hour webinar on Safety System Control Architecture in mid September. The

Take our survey

for a chance to win one of five **\$100 Gift Cards**
in time for the Holidays

We are conducting a survey regarding how people in our industry gather the latest safety application and technical information. We are giving away \$100 gift cards to five lucky responders. Survey is open now through 12/10.

[Take the Survey](#)

Evolving Robotic Safety Solutions

ANSI/RIA R15.06 is an industrial robotic safety standard which deals with the fundamental safety requirements of robotic systems as it relates to manufacturers, integrators, installers and end-users of these systems. Recently changes were made to the R15.06 standard to bring North American requirements in line with those seen in Europe's ISO 10218 standard. The Canadian Standards Association (CSA) also worked closely with the 2012 revision of R15.06, reflected in their CSA Z434 - *Industrial Robots and Robot Systems - General Safety Requirement* standard. Together these standards will offer a more harmonized and global approach to robotics safety.

Some highlights of the new R15.06 safeguarding requirements include:

- The safety-related parts of the control systems are to be designed to fulfill the requirements of PLd as per ISO 13849-1 (Section 5.4.2)
- Every robot shall have an E-STOP (Section 5.5.1), reset by manual actuation (Section 5.5.2).
- Push-buttons, key selector switches, or other actuating controls are appropriately designed to prevent unintended operation (Section 5.3.2) and are labeled to clearly identify their functions (Section 5.3.4).
- Enabling devices shall have a three position function

webinar is now available to be viewed on demand.

[View the Webinar Now.](#)

Reference



Tech Brief: RIA R15.06

A one page highlight of the AZM200 solenoid interlock with door handle and BDF200 control station and how they meet the robotics standard.

Download a PDF [here](#).



Electronic Safety Sensors

The guide to our line of Pulse Echo and RFID based safety sensors and locking switches. Download the PDF [here](#).

News



Engineers' Choice Awards

Control Engineering magazine has chosen the AZM300 as a finalist for Engineers' Choice Awards in the category "Safety - Machine Safety". Subscribers

where release of or compression past the center-enabled position of the device shall machine cease machine function and thus remove hazards. (Section 5.8.3)

- Guard locking devices only allow safe outputs when guard is closed and locked (Section 5.10.4.4) and must provide a means of escape from within hazard area, regardless of the state of the interlock (Section 5.10.4.5)
- If it is possible for an operator to be hidden from view at the reset control, supplementary protective measures to prevent resetting the restart interlock shall be provided (double reset). (Section 5.10.5.2)

Regardless of the changes to the standard, the overall goal and purpose has remained the same - to provide methods of safeguarding to enhance the safety of personnel associated with the use of robots and robot systems. The 2012 revision of the R15.06 standard officially replaces the previous version at the end of next year, December 31, 2014.

Product Spotlights

Schmersal offers a number of switches that already comply with R15.06 standards:

AZM200

This solenoid latching interlock enables safety outputs when locked and closed and has an optional emergency exit door handle that will override the solenoid interlock, even in cases of power failure. [More](#)



BDF200

Our control station offers an E-Stop among other machine controls and spaces for appropriate control labels for each of the 4 available positions. [More](#)



ZSD

This hand held enabling device has a three position function, operating equipment in center position. Releasing or squeezing the actuator button will shut down operation. [More](#)



SLC440

A double reset is among the many integrated functions offered with the

can now vote through the end of the year. [Vote here](#)

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SLC440 safety light curtain, which can easily be set up and programmed with a push button and the integrated 7 segment display. [More](#)



SRB100DR

This safety controller requires signals from two separate sources before it will re-enable safety output signals. [More](#)

Happy Holidays

We thank you for continuing to read our safety newsletter and hope you get a lot out of it. On behalf of the staff of Schmersal, we wish you a festive holiday season and all the best for a prosperous and safe New Year 2014.

