January 2020

As we enter the new year of 2020, we do so during the midst of an industrial revolution commonly refer to

New Year, New Innovations

as Industry 4.0. The factory of the future is taking shape today as seen with innovative devices and systems that connects automation and safety across various platforms throughout the world. Instant diagnostics to your cellphone and live monitoring via cloud connections are just some of the possibilities being offered over IoT (the Internet of Things). This North American concept which focuses on data sharing can be used to help achieve design concepts of what is known as Industry 4.0. In the past, automation tended to be years ahead of the capabilities of safety. Now, safety manufacturers

are tasked with not only keeping up, but staying ahead of the curve in order to effectively integrate safe solutions into an Industry 4.0 factory. With the upcoming new decade, one can only expect the technological advances in safety to continue to evolve.



develop new ideas into proven technology to stay ahead of the innovation curve and to meet the changes

Safety Light Curtains With Bluetooth

from your safety light curtains on your smartphone

or tablet. Coming soon are SLC440 and

SLC440COM safety light curtains with built-in

Bluetooth interface. The BLE interface app will be

available for Android or Apple iOS devices.

View an demonstration video (YouTube)

Interface: SLC...BLE

in industry applications for machine safeguarding. From simplifying installation with plug-and-play field boxes to integrating Bluetooth interface for real time diagnostic on safety components, our innovations have led the way in machine safety. Here are some of the latest innovations from SCHMERSAL that will be available in the coming year:

As safety requirements have changed over the years, Schmersal products have evolved as well. Being a

world leader in machine safety is an ongoing mission, and at Schmersal we take pride in being able to

View real time status and diagnostic information



AZM40 the smallest electronic safety solenoid interlock in the world, ideal for confined and difficult-to-access locations. The integrated RFID sensor detects the presence of the actuator and

Compact Electronic Safety Bolt Lock

The AZM40 is a motorized bolt lock with a bistable

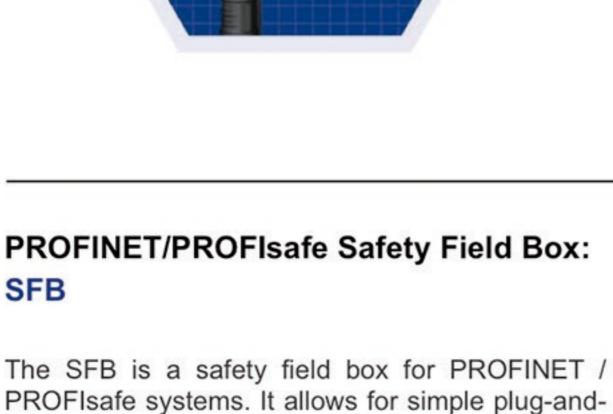
interlock principle, allowing the last lock state to be

retained in the event of a power failure. The

compact size of 119.5 x 40 x 20 mm makes the

with RFID Sensor: AZM40

offers individual coding of actuators (coding level High to ISO 14119). More information



Download the brochure

play installation, via M12-8 pole connectors, for up

to eight safety devices. These include electronic

components. The safe signals from connected

devices are forwarded to a safety controller for

evaluation via the secure PROFINET/PROFIsafe

interlocks,

other

and

switches,

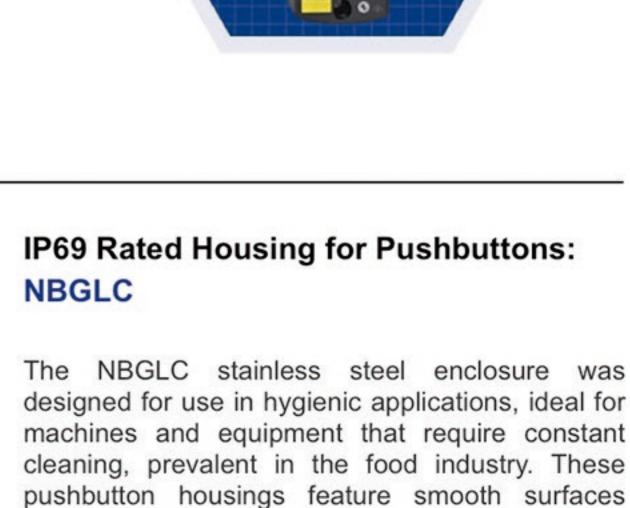
electro-mechanical

light curtains,

and

sensors,

field bus interface.



without sharp edges, IP69 rated seals to withstand

high temperature / high pressure wash downs, and

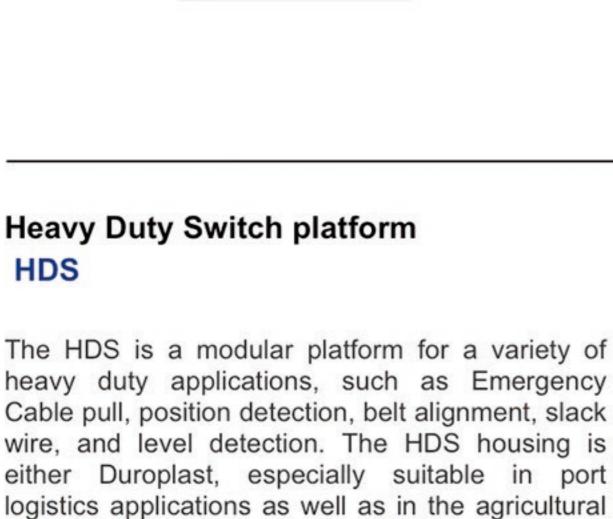
a high resistance to cleaning agents. They are

available with 1, 3, or 5 holes, and compliments

our N Series of IP69K pushbuttons, selector

switches and indicator lights.

See more information



industry, or cast iron, suitable for robust industries

such as mining or bulk materials and extraction.

Download the brochure

Reference

SCHMERSAL tec nicum USA

S SCHMERSAL tec.nicum

tec.nicum Brochure

Learn more about the various

safety training, including the new

CE

Download the brochure

assessments,

Services

and

stop

TECHNOLOGY WORKSHOP

presented by

safety devices on AS-Interface. The

sessions will be conducted by a team of

safety experts from TUV USA and AS-I.

May 4-5, 2020 - Chicago, IL

Webinar

machine

Conformity

fieldbus.

Engineering

measurements,

risk

course:

Assessment.

Schedule

Tech Brief - Electronic Learn more about the various This article discusses the goals of our Electronic Safety Sensors and Industry 4.0 which qualified specialists offer, such as Solenoid Interlocks available from combine cutting edge technology time Schmersal. These switches have rigorous with requirements, and the path taken self diagnostic and series wiring to arrive at this groundbreaking capabilities, and options for Serial

TUV NORD / LSI **Technology Workshop** This hands-on two day workshop is the This one day course covers the basics of ideal forum to learn about up to date safety machine standards, regulations, procedures, and requirements, risk assessment, types of solutions while experiencing networked hazards, the several levels of circuit design,

Diagnostic to communicate to

Download the Tech Brief

of some validation principles. It provides an explanation why validation is important and what can potentially happen if an effective validation is not done.

Validation of Machine Safety Functions

This webinar reviews some of the characteristics with

validation in both design and physical testing of a safety

system. Some examples are provided with an overview

Duration: 1 hour Recording hosted by New Equipment Digest Register to view this webinar View past webinars

A: Both OSHA and current International safety standards require a risk

Devin Murray

TUV Functional

Ask The Expert Q: Are risk assessments a requirement?

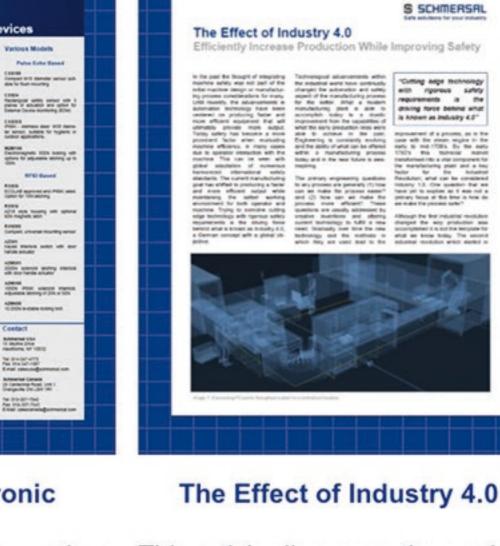
assessment to identify recognized, reasonable, and foreseeable hazards.

In order to know which safeguarding measure to apply you first have to know

which hazards exist, and this is determined by conducting a risk assessment.

Machine Safety **Functions Machine Design**

Although templates are available, a set method is not required. The main goal is to identify hazardous parts and conditions so that the necessary steps can be made to provide a safe working environment. This includes adding safety measures such as interlocks and monitoring devices to bring hazardous motions to a safe state when human interaction is required with the equipment.



General Machine Safety Training

understanding

transformation of the modern

industrial factory.

Machine Safety Training

safety:

Download the article

aims to

safety



S SCHMERSAL

Validation of

Join our mailing list | Forward to a colleague | Connect on LinkedIn | View our YouTube Channel