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NEW Product



BNS33 S

We are pleased to announce the introduction of newest addition to our family of coded-magnet sensors. ... the Series BNS33 S.

The BNS33 S features a stainless-steel housing and an IP69K Ingress Protection Rating, making it ideal for the food processing industry and other applications where wash downs are experienced.

For detailed technical data sheets, please contact your local SCHMERSAL distributor or SCHMERSAL at: info@schmersalusa.com.

Solenoid-Latching Safety Interlock Switch Applications

A solenoid-latching safety interlock switch provides a locking function in addition to the safety function other interlock switches provide. This locking function insures that the machine guard will be locked during machine operation and will remain locked until dangerous conditions have abated.

Solenoid-latching safety interlock switches are therefore ideal for use in applications where an operator may be exposed to a hazard due to continuing motion after power removal or where it is desired to avoid inadvertent process interruption due to the guard being opened.

Continuing Motion Hazards

The removal of power to a machine may not immediately remove hazardous conditions. Continuing machine motions such as flywheel overrun, spindle momentum, or unstable rest positions may present considerable hazards to machine operators well after power has been removed.

In this type of application, the locking of the solenoid-latch augments the safety function of the guard. The switch can be controlled by a time delay, motion detector, position sensor, or other suitable component to prevent the machine guard from unlocking until the hazard has abated. Both the key position & solenoid latch position contacts should be monitored to insure that the guard is "closed" (the actuator is inserted) and "locked" (the solenoid is latched). It is possible to monitor only the solenoid lock position contact provided the switch features a mechanical linkage which prevents the solenoid position contact from changing state when the key is not inserted - The guard "closed" and "locked" criteria will be met if solenoid latch locks.

However, machine guard designers should be aware that the locking function of the solenoid-latching safety interlock switch may be compromised by a power failure to the switch, such as a power outage or the wiring being severed. If using power-to-lock versions of the switch, a power failure will unlock the guard and expose the hazard, making it necessary to ensure that proper safety distances are maintained. On the other hand, power-to-unlock versions cannot be opened until power has been restored, unless they are equipped with an optional auxiliary manual release.

Process Interruption Prevention

When a machine guard is opened, the interlock switch is typically wired to shut down the machine. In some cases, a machine's process must be protected from inadvertent shut down due to the guard being opened. Interrupting a process midstream can lead to product loss, material waste, tooling or machine damage, or extensive downtime (productivity loss) while trying to reset the process. In any case, the locking function of the solenoid-latching safety interlock switch is an inexpensive way to avoid the costs associated with process interruption due to guard opening.

In this type of application, the locking of the solenoid latch is not primarily a safety concern. While the focus of the locking function is protection of the

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IMPORTANT REMINDER:

As you know, July 1st marked the end of production of our **AZM161SK-24** and **AZM161SK-33** models ... as these units have evolved into a new and improved model - the **AZM161SK-12/12**.

The **AZM161SK-12/12** features 1NO & 2NC contacts on both the key-position and solenoid-position contact blocks. This arrangement addresses most applications, and provides greater application flexibility.

Like it's predecessors, the **AZM161-12/12** also features the mechanical linkage that prevents the solenoid contacts from changing state until the key is fully-inserted (assuring that the guard is fully-closed). This allows for using the 2 NC contacts on the solenoid contact block for monitoring with a safety controller.

Orders for the **AZM161SK-24** and **AZM161SK-33** models will be accepted until our stock is depleted. Once these limited quantities are gone, we expect customers will find the transition to the **AZM161SK-12/12** will be relatively easy to implement. To help make the transition, a technical data sheet for the **AZM161SK-12/12** model is available on our website:

www.schmersalusa.com.

SWITCH APPLICATIONS ... CONTINUED FROM PAGE 1

machine or process, the machine guard still protects the machine operator. Since the safety function is solely dependent on the guard being "closed", monitoring can be of the key position contact only.

Either power-to-lock or power-to-unlock versions may be utilized in this type of application, without regard for the concerns of power failure associated with continuing motion hazard applications.

Summary

Solenoid-latching interlock switches are the solution for any application which requires the machine guard to be locked as well as closed.

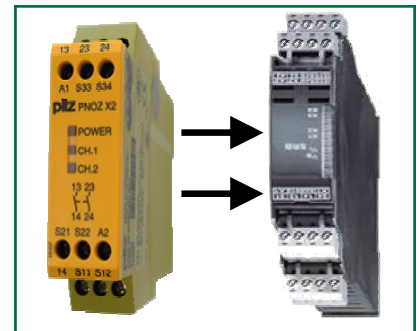
New Product Announcement

SCHMERSAL is pleased to announce the introduction of the newest addition to our family of PROTECT Safety Controllers ... the Series SRB-X.

The design features of the SCHMERSAL SRB-X Series enable them to serve as functional replacements for the PILZ Series PNOZ-X ... with identical wiring terminal locations and labeling. Like all of our SRB series, these safety controllers feature detachable screw terminal blocks for quick replacement.

There are eight models available:

SRB 301X1	PNOZ X1
SRB 200X2	PNOZ X2
SRB 302X3	PNOZ X3
SRB 301X4	PNOZ X4
SRB 220XV2	PNOZ XV2
SRB 320XV3	PNOZ XV3
SRB 200ZHX1	P2HZ X1
SRB 201ZHX3	P2HZ X3



For detailed technical data sheets, contact your local SCHMERSAL distributor or SCHMERSAL at info@schmersalusa.com.

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Frequently Asked Questions

Q: How do I decide which safety controller to use?

A: Safety Controller selection is usually based on:

1. The type of units being monitored (E-Stops, interlock switches, light curtains, coded magnet sensors)
2. The number of outputs being monitored.
3. The number and type of outputs required from the safety controller
4. The need/desire to monitor the integrity of the positive-guided contacts in the output device (motor contactor, control relay)
5. The level of safety desired (determined by a structured risk assessment)

These application parameters will normally narrow and simplify the choice of safety controller to one or two units.

More Frequently Asked Questions are answered at our website: www.schmersalusa.com