A failure.

ability and quick troubleshooting in the case of protocols. This provides for enhanced availa-
diagnostic-information through default bus
Gateway, for instance for the CSS series,
Schmersal Group therefore offers a Diagnostic
individual components is highly important. The
Information provides for transparency
other things, a high protection class, a metal
the R series to accessorize high-grade opera-
long service life under rough and heavy-duty
The Schmersal Group also offers switchgear
High reliability at the man-machine interface
on the other hand.
provide for a double safety: they ensure the
ATEX and IECEx Directives. These switchgear
ar with integrated AS-i Safety interface.
comprehensive programme of safety switchge-
within wood-processing machinery construc-
possibilities - features, which are applauded
from considerably reduced installation efforts
The use of the “AS Interface Safety at Work”
with machinery manufacturers, is tackling and will continue to tackle in
occupational safety .
products to enhance
Schmersal Group
privately owned
For many years the
Development
Safe solutions for your industry
With the increasing industrialisation, the products of Schmersal Group are
in many industries and for some of them, an own portfolio has been developped as well.
challenges from the start. As a result, specific products and solutions were developped for
requirements are applicable. As customer-focussed company, who intensively deals with
and plant construction for decennia already. In some industries, special and additional
situation meanwhile has changed - not in the
common feature, i.e. they entail hazards and
Most of these methods and processes have a
assembly and strand board production methods.
.miscellaneous surface treatments, furniture as-
They include debarking and sawing as well as
Wood is a popular natural material, both in
Higher level of automation

Health is an issue about material used in
assembly or disassembly. The processing
of products according to the local and federal
standards and guidelines in high-productive
applications.

As a result, mandatory aspects are:
- Safety is a top priority for Schmersal Group and its
customers. The company is committed to ensuring a safe
working environment for all employees and stakeholders.
- The Schmersal Group is dedicated to the continuous
improvement of its products and services, focusing on
innovation and customer satisfaction.
- It provides comprehensive training for sales
representatives, engineers, and other stakeholders, ensuring
adequate knowledge and understanding of safety
standards and guidelines.
- The company is actively involved in the development
of new technologies and solutions for occupational
safety, promoting the adoption of advanced
measures to enhance workplace safety and
prevent accidents.

The Schmersal Group is committed to providing
solutions that not only meet the current safety
standards but also anticipate future challenges,
ensuring the protection of both employees and
machinery. By partnering with Schmersal Group,
organizations can penetrate the world of
occupational safety by leveraging
innovative technologies and practices.
The Schmersal Group therefore offers a Diagnostic Information system that provides for transparency and quick troubleshooting in the case of protocols. This provides for enhanced availability of processes and working companies use the process.

Information provides for transparency and other things, a high protection class, a metal enclosure and a “vandal-proof” design.

The Schmersal Group also offers switchgear that cannot become a source of ignition themselves for automation and machine working. These enterprises can rely on Schmersal for comprehensive support for the implementation of occupational safety. These are the challenges which the Schmersal Group, in partnership with machinery manufacturers, is tackling and will continue to tackle in the future.

Motivated by the vision of a safe working environment, the Schmersal Group engineers are constantly working on the development of new solutions and technologies. The safety sensors no longer respond to the slightest misalignment of the guard door or even avoid interruptions of the production process. The user then activates the safety monitor with the master display. The user then activates the safety monitor with the master display.

For more information contact:
info@schmersal.com
www.schmersal.com

www.schmersal.com
For more than 50 years Schmersal has been developing, producing and marketing products and systems for safety in wood-processing machinery. The Schmersal Group includes a range of products, including sensors, safety switches and systems, as well as diagnostic information through default bus gateways, for example for the CSS series. Schmersal Group therefore offers a diagnostic programme for complex plants, including a communication between enclosure and a "vandal-proof" design.

In the wood-processing industry, the communication between enclosure and "vandal-proof" design is crucial. The programme features, amongst other things, seminars in the forestry and woodworking industries, which are characterised by a high injury-risk workplaces. This is a common feature, i.e. they entail hazards and risks for the operators.

For the man-machine interface of wood-processing machinery, Schmersal offers a comprehensive programme of explosion protection of man and machine. Schmersal Group is known as the world’s largest range of safety systems and solutions for the chemical industry, automotive, renewable energy, construction machinery, machine tools and food and packaging.

When mixed with a certain volume of air, wood requires a change in thinking from the manufacturers and users of machinery and plants. The service portfolio Schmersal Group offers its customers comprehensive support for the implementation of CE conformity assessment and the Machinery Directive. Schmersal Group’s engineers are constantly working on the development of new solutions in the area of safety systems and solutions.

Machine safety is a complex theme. The use of the "AS Interface Safety at Work" includes, amongst other things, seminars in the forestry and woodworking industries, which are characterised by a high injury-risk workplaces. This is a common feature, i.e. they entail hazards and risks for the operators.

Most wood-processing machinery builders require a change in thinking from the manufacturers and users of machinery and plants. The service portfolio Schmersal Group offers its customers comprehensive support for the implementation of CE conformity assessment and the Machinery Directive. Schmersal Group’s engineers are constantly working on the development of new solutions in the area of safety systems and solutions.
Safety switches with separate actuator

- Application: Position switches with safety function (see section "Position switches to DIN EN 50047 / 50041" above).
- Positive: Positive locking function ensures a safe setting position after activation. Momentary setting position is maintained even when the switch is released, which guarantees single point operation against repeated actuation.
- Rated in: Stainless steel with a high level of protection against tampering. Offered in various versions and designs to meet the specific requirements of each application.
- Hygiene: Hygiene-geprüft (BG-PÜFZERT.)

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Non-contact safety sensors

- Application: Optoelectronic safety devices such as safety light barriers, safety light grids and curtains. Suitable for applications in areas with high requirements on protection against tampering and easy cleaning.
- Rated in: Hygiene-geprüft (BG-PÜFZERT.)

Controlling, signalling and evaluating

- Application: Additional functions for control and display of safety relevant information. Used in various applications, such as machines, conveying systems, and industrial applications.
- Hygiene: Hygiene-geprüft (BG-PÜFZERT.)
Safety switch with separate actuator

- A wide range of accessories is available
- Non-contact solenoid interlocks
- Optionally with individual coding
- Metal and thermoplastic enclosure
- Up to 5 safety contacts
- Holding force of 500 - 3500 N

Position switch with safety function

- Plastic and metal enclosures
- Multi-functional safety switch in 10 designs (M 07 / M 08) or 5 designs (M 008) giving the designer an extended range of applications
- Including options for inductive applications
- Actuator with integrated lock

Non-contact safety sensors

- Versions with connector and cable
- Different designs
- Plastic and stainless steel enclosure
- Protection class up to IP69K
- With integrated logic circuit for monitoring and evaluation
- Comprehensive additional functions through RFID technology
- Protection class up to IP69K
- Range 0.3 … 40 m
- Type 2 and type 4 safety light grids and curtains to IEC/EN 61496-1, -2
- Optoelectronic safety devices such as safety light barriers, safety light grids
- Contact or when touched
- The variety of application fields requires coordination of the protection with regard to tamper protection must be met, the use of hinge safety guards (fences, covers or doors) from being opened before the necessary signal is transmitted to the solenoid interlock through the control part of a machine, sliding, hinged and removable safety guards, which guarantee single point protection against accessing the machine. In additional to the universally-popular AZ 16 (left), different series are available, which can be fitted, amongst other things, on profiles as well as in confined mounting spaces and moreover can be used for moderating tasks of packages and conveyed material as well as linear axes. Application

Safety switches with a separate actuator are used in machine control systems for detecting the presence of a hazard. These devices ensure the machine’s safety by interrupting the energy supply and stopping the machine when a hazard is detected. They are typically used in conjunction with the control part of a machine, sliding, hinged and removable safety guards, which guarantee single point protection against accessing the machine. Application

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The use of safety sensors is of particular advantage, in cases where it is necessary to avoid the use of mechanical actuating elements, enables a hard-wire free detection of mechanical or electrical inputs. Take the example of a pressure sensor, which avoids the use of mechanical actuating elements, enables a hard-wire free detection of mechanical or electrical inputs. Take the example of a pressure sensor, which

With CSS technology, the Schmersal Group has developped an operating platform, which avoids the use of mechanical actuating elements, enables a hard-wire free detection of mechanical or electrical inputs. Take the example of a pressure sensor, which enables a hard-wire free detection of mechanical or electrical inputs. Take the example of a pressure sensor, which

Hygiene geprüft

BG-PR Ü FZERT.
Position switch with safety function

Application
Position switches with safety function serve to safely position machines, for instance in packaging machinery. They are used in conjunction with safety monitoring systems to ensure that the machine stops when the safety switch is actuated. Depending on the version, the switches are available in different positions, for instance in vertical or horizontal position.

Non-contact safety sensors

Application
Non-contact safety sensors are devices that, with the aid of optical or electronic principles, ensure the safe operation of machines. They are used in conjunction with safety monitoring systems to ensure that the machine stops when a hazardous zone is entered. Non-contact safety sensors are available in a wide range of designs and sizes. They can be used in horizontal, vertical, and incline positions, and are equipped with an output stage that can be directed to various devices.

Controlling, signalling and evaluating

Application
Schmersal Group has a comprehensive portfolio of control, signal and evaluation devices, which are used in conjunction with safety monitoring systems to ensure safe operation of machines. Schmersal’s command and signalling devices are designed to ensure safe operation of machines during packaging procedures. They are designed for use in industrial applications and are equipped with an output stage that can be directed to various devices.
Safety switch with separate actuator

- Positive release with safety transfer once open
- Safety switching and monitoring systems
- Optional with separate actuator
- Tactile sensors
- Spring-return/maintained joystick switches, pushbuttons, selectors
- Tactile monitoring systems

Position switch with safety function

- Plastic and metal enclosures
- Ideal for use with Bihler's range of presses or big presses
- Additional features like door interlock and cross-referencing

Non-contact safety sensors

- Plastic and metal enclosures
- Suitable for use with Bihler's range of presses or big presses
- Accessories for various applications

Controlling, signalling and evaluating

- Safety-related monitoring function integrated in the switch
- Comprehensive diagnostic information available
- Protection class up to IP69K
- Spring-return/maintained joystick switches
- White, red, or green indicator lights

Further information about the products can be found at: www.schmersal.net under the indicated code numbers.
High-reliability in the heavy-duty environment

Wood-processing - Safety, also in heavy-duty environments

For many years the Schmersal Group, in partnership with machinery manufacturers, is tackling and will continue to tackle in keeping with the wishes of the manufacturers and users of machines, Schmersal has taken up these requirements.

Safety in system: Protection for man and machine - under this motto, the Schmersal Group offers a comprehensive programme of explosion- and fire-protection switchgear for automation and machine engineering.

Service

When it should be avoided that the function of safety switchgear is affected by wood chips and wood dust, Schmersal-patented CSS technology detect the slightest movement of wood and solenoid interlocks equipped with the Schmersal-patented CSS technology detect the slightest movement of wood and transmit a corresponding message to the user. Consequently, the user can react immediately and prevent interruptions of the production line.

A number of switchgear series from Schmersal are true specialists for the heavy-duty conditions of the wood-working industry. These series include Guard door monitoring safety switches, safety mats, robust position switches, as well as safety and emergency stop function on conveyor plants and large wood-processing machinery.

For most purposes the Schmersal Group offers products or systems, which are internationally certified, according to the national or international standards.

Product ranges

■ Safeguarding and monitoring of hazardous areas
■ Safety switches
■ Safety transfer switches
■ Emergency stop function
■ Emergency stop function
■ Safety systems
■ Pneumatic

Information

■ Electrical safety
■ Mechanical safeguarding
■ Pneumatic safeguarding
■ Hydraulic safeguarding

Applications

■ Automation and Strand board production
■ Assembly and strand board production
■ Furniture assembly and strand board production

Comprehensive safety systems

■ Protection against electrocution
■ Protection against fire
■ Protection against mechanical hazards
■ Protection against hazardous areas
■ Protection against hazardous areas

What started out with products to enhance the safety of large and heavy-duty machinery is today a comprehensive line of safety systems and solutions for the wood-processing and wood-working companies.

The Schmersal Group therefore offers a comprehensive range of products for the wood-processing and wood-working companies.

A stack full of solutions

Wood-processing

Products and solutions for wood-processing and wood-working companies

Safe solutions for your industry

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