



Solutions for the packaging, food and beverage industry

PILZ
THE SPIRIT OF SAFETY

Safe automation technology from the expert:

- ▶ Protect human and machine.
- ▶ Increase performance.
- ▶ Opt for tailor-made solutions from Pilz.



► Flexible solutions for the packaging, food and bev



Visit our website
for more
information:

Webcode:
web0749

Online information
at www.pilz.com

Efficient, economical packaging processes require a high level of automation. At the same time, there are basic requirements for functional safety that must be observed. In practice, safety, modularity and automation must go hand in hand. Thanks to our industry experience in packaging technology, we can support you with our consulting competence and our comprehensive product range, ensuring your projects are implemented professionally.

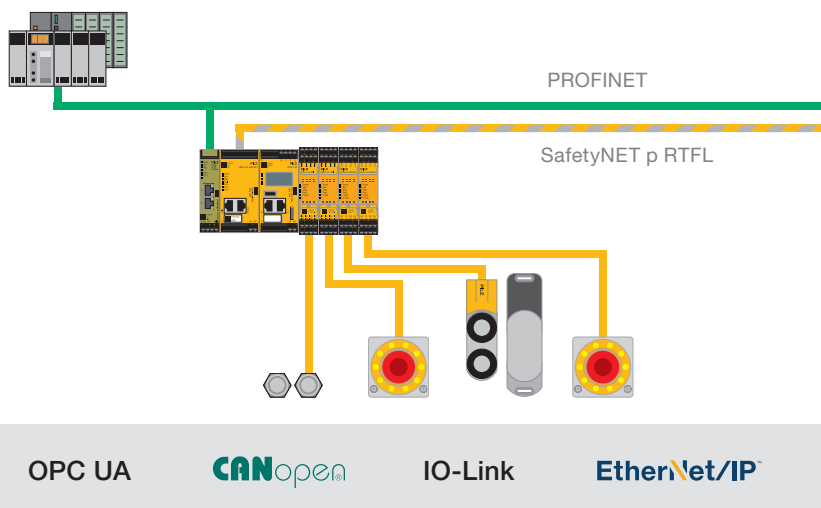
+ Primary packaging

Primary packaging machines make direct contact with the products and therefore require not only safety but also a high level of hygiene. The high demands for availability and connectivity for the overall plant can be achieved with our safe control technology and our motion control solutions. Our focus here is the safe automation of your packaging machinery with the highest possible productivity and speed.



Your benefits at a glance

- Comprehensive range of products and services
- Individual consultation for economical solutions in tune with requirements
- Safety analysis and risk evaluation
- Intelligent dovetailing of safety and standard control functions from one source
- Individually developed solutions with simple configuration and programming software



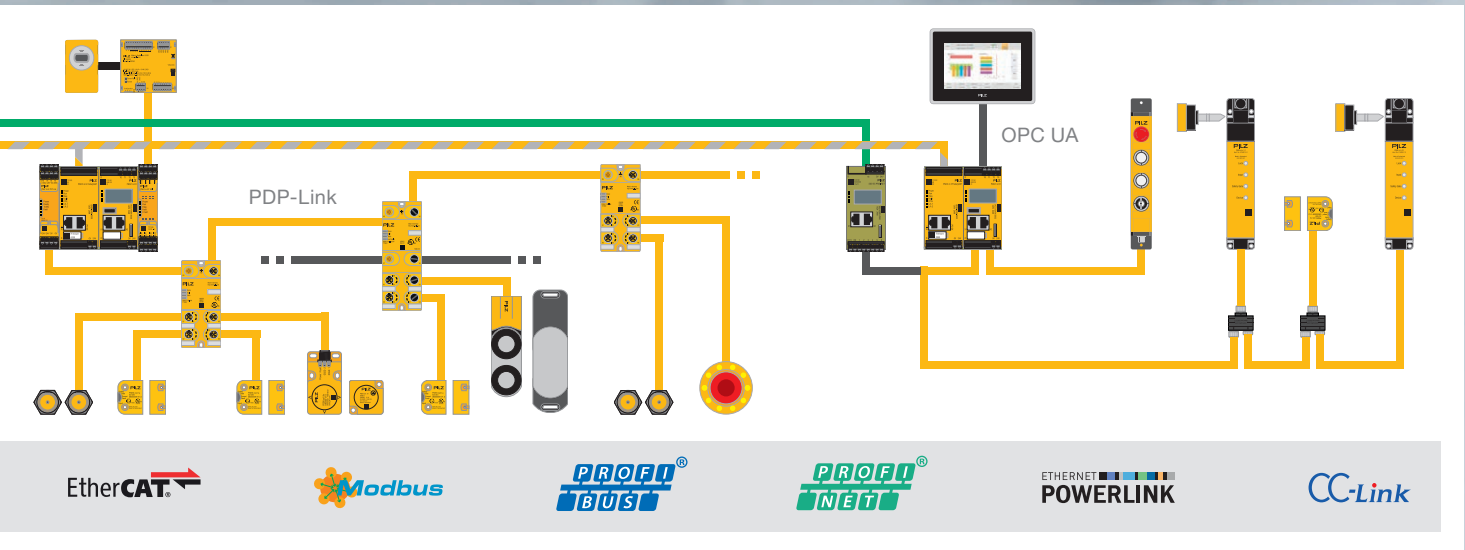
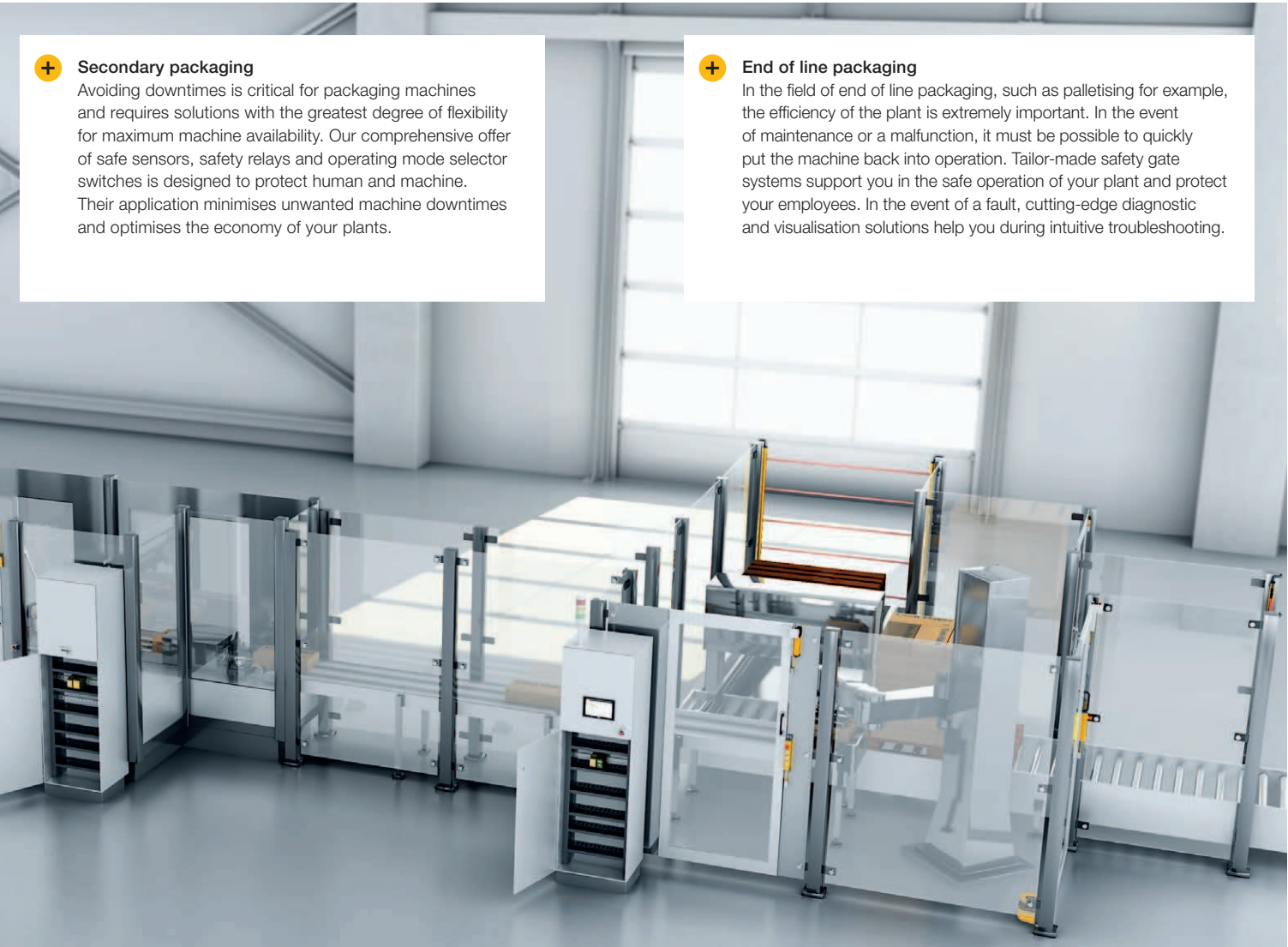
erage industry

+ Secondary packaging

Avoiding downtimes is critical for packaging machines and requires solutions with the greatest degree of flexibility for maximum machine availability. Our comprehensive offer of safe sensors, safety relays and operating mode selector switches is designed to protect human and machine. Their application minimises unwanted machine downtimes and optimises the economy of your plants.

+ End of line packaging

In the field of end of line packaging, such as palletising for example, the efficiency of the plant is extremely important. In the event of maintenance or a malfunction, it must be possible to quickly put the machine back into operation. Tailor-made safety gate systems support you in the safe operation of your plant and protect your employees. In the event of a fault, cutting-edge diagnostic and visualisation solutions help you during intuitive troubleshooting.



► Products and solutions

Our comprehensive portfolio of products and solutions for safe automation includes safe sensor and control technology, professional operator and visualisation systems, drive technology and a large selection of appropriate accessories.



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Application examples for primary packaging

We offer a number of combinations of safe sensors, control technology and control units, so providing flexibility for your individual application. Safety relays PNOZ and small controllers PNOZmulti are the standard in the packaging industry and are perfect for combining with a number of our sensor technology products. For example the stainless steel safety switch PSENmag, which is particularly suited for use in areas with a high cleaning demand, is extremely resistant to heat and cold and is distinguished by its vibration and shock resistance.



1 Automation system

PSS 4000 – Safety and automation for complex applications with many safety functions and high demands on logic.
Webcode: web151338



2 Servo amplifier with safety card PMCprotego DS and servo motor PMctendo SZ –

PLC and motion functionality for plant automation including motion management.
Webcode: web150506



3 Configurable control systems PNOZmulti 2 –

Modular and expandable control system for several safety functions.
Webcode: web150500



4 Magnetic safety switch

PSENmag VA – High level of safety and maximum robustness for extreme conditions.
Webcode: web150413



5 Safety gate system

PSENSlock – Safe position monitoring and process guarding in one system.
Webcode: web150408



Application examples for secondary packaging

Thanks to their modular design and expandability, the configurable safe small controllers PNOZmulti can be adapted precisely to the respective application and can be connected to a number of higher-level controllers. When PDP67 modules are used, safe sensors can be connected directly in the field. Communication and power supply are implemented with just one plug-and-play cable with M12 plug-in connector.

For requirements with regard to operating mode selection and access permission, PITmode combines safety and security functions in one system. It enables functionally safe operating mode selection as well as control of access permissions on plant and machinery.



6 Safe speed monitor PNOZ s30 –

Convenient, safe stand-alone speed monitoring.
Webcode: web7992



7 Safety relays PNOZsigma –

For the monitoring of safety functions such as emergency stop, safety gates and light curtains.
Webcode: web150099



8 Decentralised field modules PDP67 –

For cabinet-free installation with IP67.
Webcode: web150450



9 Coded safety switch PSENcode –

Safety switch for safety gate and position monitoring.
Webcode: web150412



10 E-STOP pushbutton PITestop – Emergency stop pushbutton for shutting down plants in hazardous situations.

Webcode: web150436



11 Operating mode selection and access permission system PITmode –

Combines safety and security in one system.
Webcode: web150439



Application examples for end of line packaging

The modular safety gate system is suitable for every safety gate application and can be flexibly tailored to your needs and individually assembled: PITgatebox, PSEncode, PSENmlock with optional escape release and PSENslock offer the perfect solutions to safeguard your safety gates. The use of SDD (Safety Device Diagnostics) enables a one-cable solution for the safe sensors PSEncode and PSENmlock. Diagnostic and status information increases plant availability, thereby reducing the total cost of ownership. Our PMI visualisation panels including the corresponding PASvisu software are ideally suited for a comprehensive overview of your system's performance.



12 Configurable safe small controllers PNOZmulti 2 –

Modular and expandable control system for several safety functions.

Webcode: web150500



13 Safety gate system PSENmlock – Safe interlocking and safe guard locking in one product with optional escape release.

Webcode: web150409



14 Safety Device Diagnostics (SDD) – Diagnostics and series connection for the safety gate sensors PSENmlock.

Webcode: web150456



15 Light curtains PSENopt II – The robust light curtain for finger, hand and body protection.

Webcode: web150418



16 Pushbutton unit PITgatebox – For easy operation of your safety gate system.

Webcode: web194459



17 Safety laser scanner PSEnscan – For two-dimensional area monitoring.

Webcode: web181395



18 Operator terminals PMI – Modern HMIs for diagnostics, visualisation and control.

Webcode: web150778

► Our services

As a solution supplier, Pilz can help you to apply optimum safety strategies that comply with specifications. Our services ensure maximum safety for human and machine worldwide. Following careful technical risk evaluations of machinery, we develop safety concepts and solutions with the goal of minimising the risk for employees while taking productivity into consideration.



Training

Pilz supports you with a comprehensive range of training courses on all topics of machinery safety and automation.



Machinery safety

We offer you comprehensive safety services customised to your company's needs throughout the entire machine lifecycle.

To achieve expert level, we offer the following international qualifications certified by TÜV NORD:

CMSE® – Certified Machinery Safety Expert

The globally recognised qualification that enables a 360° approach to machinery safety.

CECE – Certified Expert in CE Marking

The highest possible qualification in CE marking.



International compliance

We can assist you with the conformity assessment of your plant and machinery on all continents.



Workplace safety

Because the safety of your employees is your highest priority, we provide you with comprehensive support in the standard-compliant analysis and optimisation of the safety status in your workplace.

► Support

Technical support is available from Pilz round the clock.

Americas

Brazil

+55 11 97569-2804

Canada

+1 888 315 7459

Mexico

+52 55 5572 1300

USA (toll-free)

+1 877-PILZUSA (745-9872)

Asia

China

+86 21 60880878-216

Japan

+81 45 471-2281

South Korea

+82 31 778 3300

Australia

+61 3 95600621

Europe

Austria

+43 1 7986263-0

Belgium, Luxembourg

+32 9 3217570

France

+33 3 88104003

Germany

+49 711 3409-444

Ireland

+353 21 4804983

Italy, Malta

+39 0362 1826711

Scandinavia

+45 74436332

Spain

+34 938497433

Switzerland

+41 62 88979-32

The Netherlands

+31 347 320477

Turkey

+90 216 5775552

United Kingdom

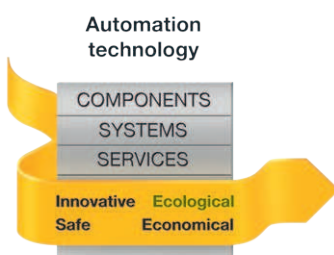
+44 1536 462203

**You can reach our
international hotline on:**

+49 711 3409-444

support@pilz.com

Pilz develops environmentally-friendly products using ecological materials and energy-saving technologies. Offices and production facilities are ecologically designed, environmentally-aware and energy-saving. So Pilz offers sustainability, plus the security of using energy-efficient products and environmentally-friendly solutions.



Presented by:



*Energy
saving by Pilz*



We are represented internationally. Please refer to our homepage www.pilz.com for further details or contact our headquarters.

Headquarters: Pilz GmbH & Co. KG, Felix-Wankel-Straße 2, 73760 Ostfildern, Germany

Telephone: +49 711 3409-0, Telefax: +49 711 3409-133, E-Mail: info@pilz.com, Internet: www.pilz.com

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