

Turning workplaces into safer places.

WITH SYSTEMS AND SOLUTIONS FROM SCHMERSAL



SAFETY SYSTEMS AND SOLUTIONS FROM A SINGLE SOURCE

Industry 4.0 places new demands on the design of production systems and production processes – and also machinery safety. The Schmersal Group supports you in the introduction of next generation digital technologies with automation and safety concepts. We offer you complete solutions from a single source, developing individual safety architectures with components, control systems and software. These architectures are tailored to your application and facilitate integrated communication of diagnostic information from the component to the Cloud.

Consultancy

Our tec.nicum experts provide you with advice in all matters relating to safety – from the current standards situation to the selection of suitable safety equipment.

Risk assessment

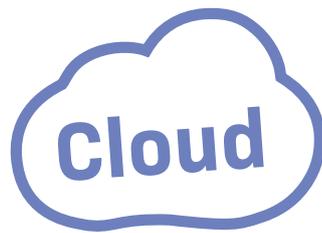
Based on requirement, tec.nicum offers safetyrelated evaluation of individual machines, provides up-to-date advice during risk assessment or carries out the complete assessment, including documentation.

Concept

We manage planning, design and programming of safety-related solutions for you up to installation of safety products and safety systems.



At Schmersal, you can configure your customised safety solution based on the building block principle, from the individual component to the full service package with turnkey delivery of complex safety systems. With its extensive range of modular services, comprising training courses, consultation, technical planning and execution, our business area, tec.nicum, contributes decisively towards this. Depending on requirement, you can order individual service blocks – be it manufacturer-neutral consultation, retrofitting of individual machines, the design of application-specific safety solutions or complete project management up to the installation of individual items of protective equipment.



Components

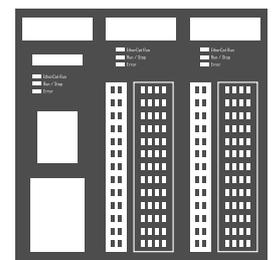
Our extensive range of safety switches forms the basis for the development of individually-adapted safety systems and solutions.

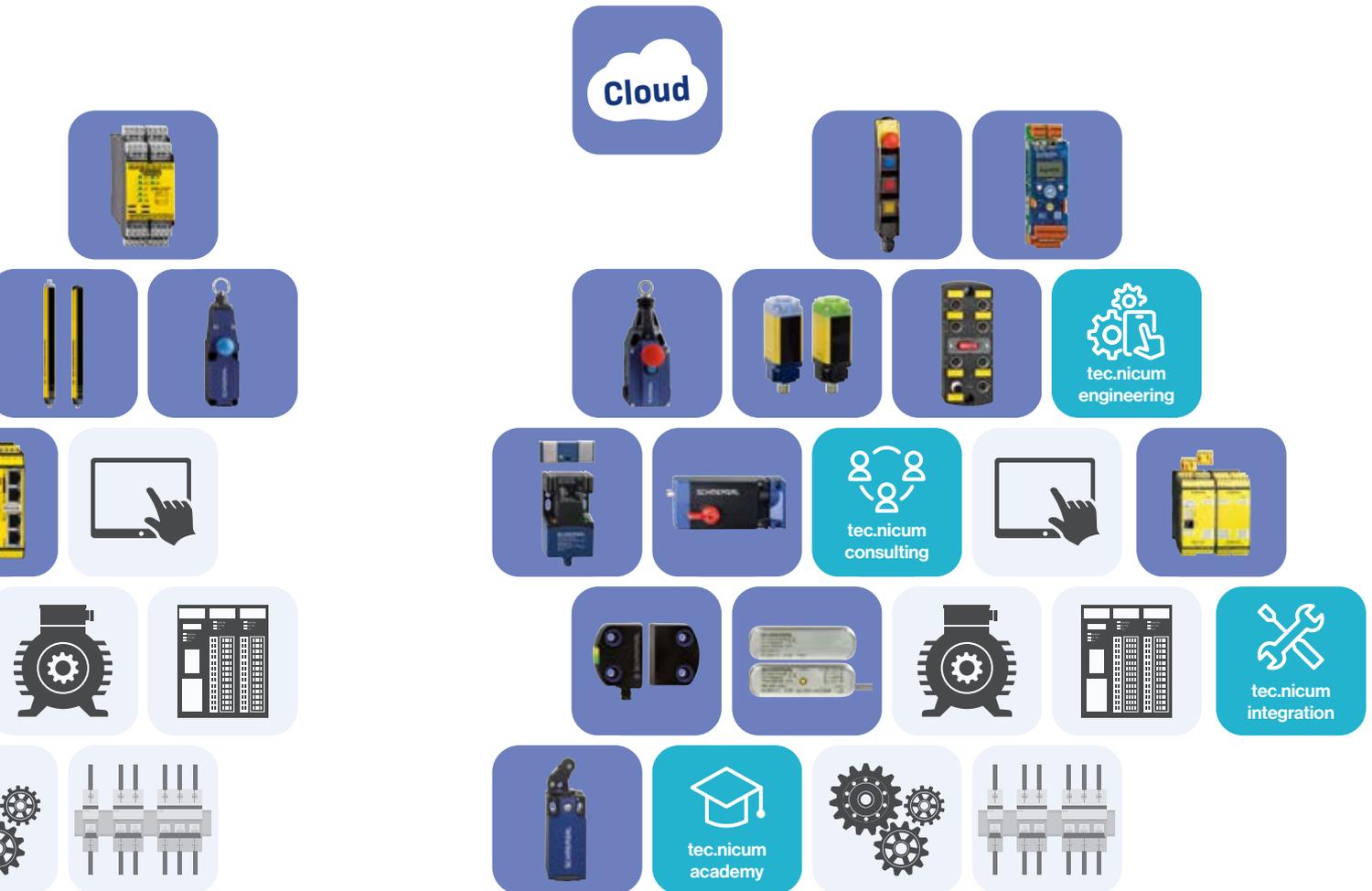
Signal evaluation

For safe and reliable signal evaluation, we offer you solutions adapted optimally to the complexity of your machines and plant systems – from cost-efficient safety relay modules to programmable safety controllers.

Training courses

Our tec.nicum academy offers you a comprehensive range of seminars and training in all matters relating to machine and plant safety.





The PSC safety controllers make it possible to program individual protection systems as well as create complex, multi-part systems with networked safety subsystems. Individual production cells can communicate with each other in this way.

Systems

Data from the safety controllers are already available at the higher levels via standard bus systems. Schmersal has set itself the aim of enhancing its range of next generation systems and solutions and significantly simplifying

communication from the control level to higher-level systems – up to the Cloud. Our tec.nicum provides you with advice on which systems and solutions are best suited for your application.

TEC.NICUM: MACHINE SAFETY FROM A TO Z

Thanks to the new technical developments in terms of Industry 4.0, there is a rising demand for holistic safety-related system-solutions tailored to the individual requirements of the respective application.

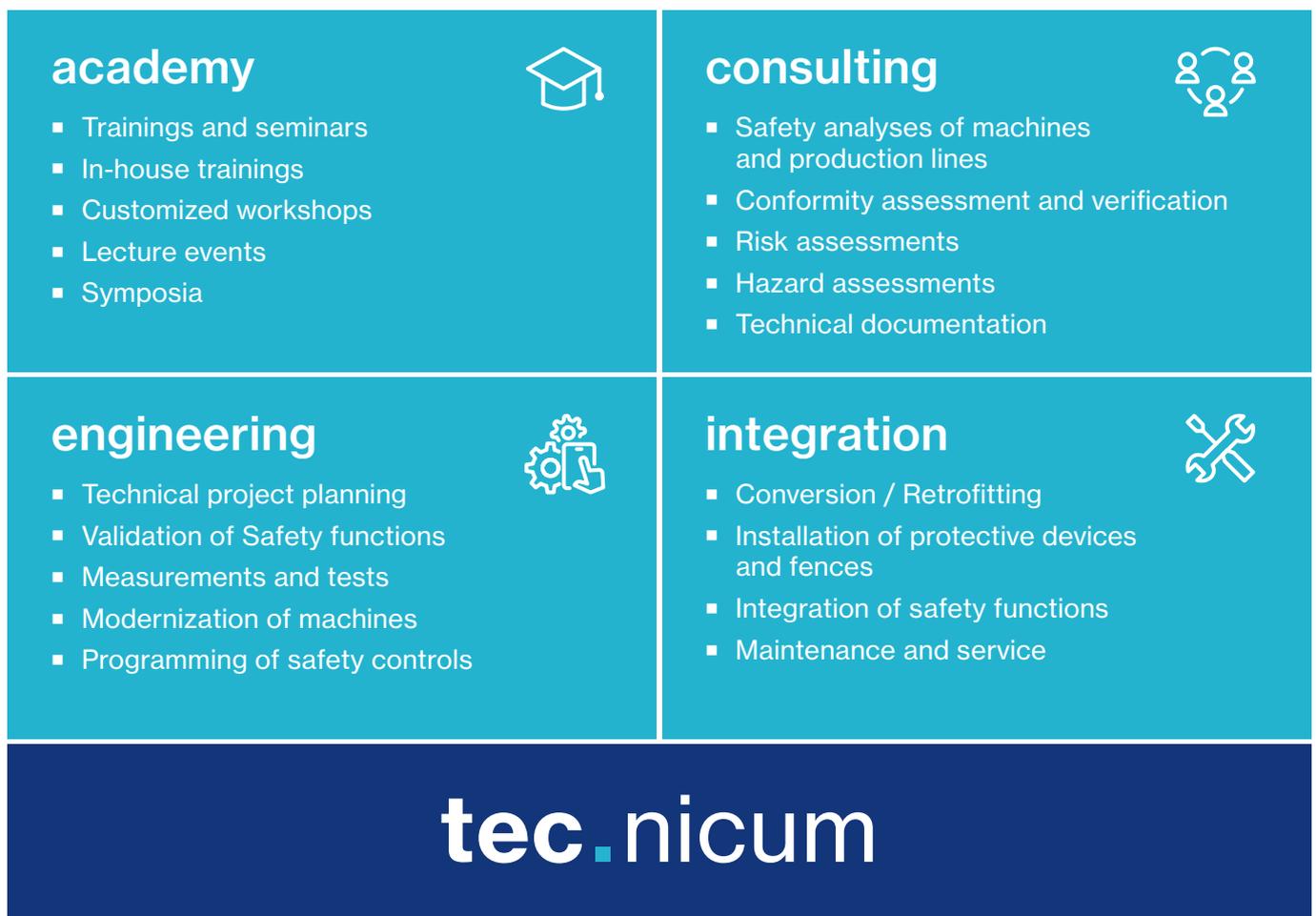
The Schmersal Group therefore offers comprehensive consultation services through its business division, tec.nicum, in order to support manufacturers – even as early as the planning phase – in the design of individually adapted safety equipment. The experts from tec.nicum then oversee the whole process up to turnkey delivery of the safety-related solution upon successful integration. This development process encompasses – often from the outset – risk analyses along with safety-related appraisal of existing machines and plant systems and does not end with user-specific programming of safety controllers.

Our experts supply you with answers to all of your questions – from A to Z (anything from analysis to certification), anywhere around the world and with completely neutral advice independent of the manufacturer.

As a provider of systems and solutions for machine safety, Schmersal is therefore able to supply everything from a single source: hardware and software, expertise and consultation.



Safety services based on the building block principle



The range of services offered by tec.nicum is based on four pillars:

- Transfer of knowledge at the academy
- Consultation
- Design engineering of safety solutions
- Practical implementation

Each of these four service components can be ordered individually according to requirement.

THE SCHMERSAL GROUP

PROTECTION FOR MAN AND MACHINE

In the demanding field of machine safety, the owner-managed Schmersal Group is one of the international market leaders. The company, which was founded in 1945, has a workforce of about 2000 people and seven manufacturing sites on three continents along with its own companies and sales partners in more than 60 countries.

Customers of the Schmersal Group include global players from the area of mechanical engineering and plant manufacturing as well as operators of machinery. They profit from the company's extensive expertise as a provider of systems and solutions for machine safety. Furthermore, Schmersal specialises in various areas including food & beverage, packaging, machine tools, lift switchgear, heavy industry and automotive.

A major contribution to the systems and solutions offered by the Schmersal Group is made by tec.nicum with its comprehensive range of services: certified Functional Safety Engineers advise machinery manufacturers and machinery operators in all aspects relating to machinery and occupational safety – and do so with product and manufacturer neutrality. Furthermore, they design and realise complex solutions for safety around the world in close collaboration with the clients.



SAFETY PRODUCTS

- Safety switches and sensors, solenoid interlocks
- Safety controllers and safety relay modules, safety bus systems
- Optoelectronic and tactile safety devices
- Automation technology: position switches, proximity switches

SAFETY SYSTEMS

- Complete solutions for safeguarding hazard areas
- Individual parametrisation and programming of safety controllers
- Tailor-made safety technology – be it for individual machines or a complex production line
- Industry-specific safety solutions

SAFETY SERVICES

- tec.nicum academy – Seminars and training
- tec.nicum consulting – Consultancy services
- tec.nicum engineering – Design and technical planning
- tec.nicum integration – Execution and installation



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