

The background is a photograph of an industrial setting. On the left, a large yellow emergency stop button is mounted on a metal frame. In the center, a robotic arm is positioned over a conveyor belt. On the right, a female worker in a white lab coat is holding a yellow electronic component. In the background, a male worker in a white lab coat is holding a tablet. A yellow and black checkered safety pattern is overlaid on the image, extending from the emergency stop button towards the right.

Start

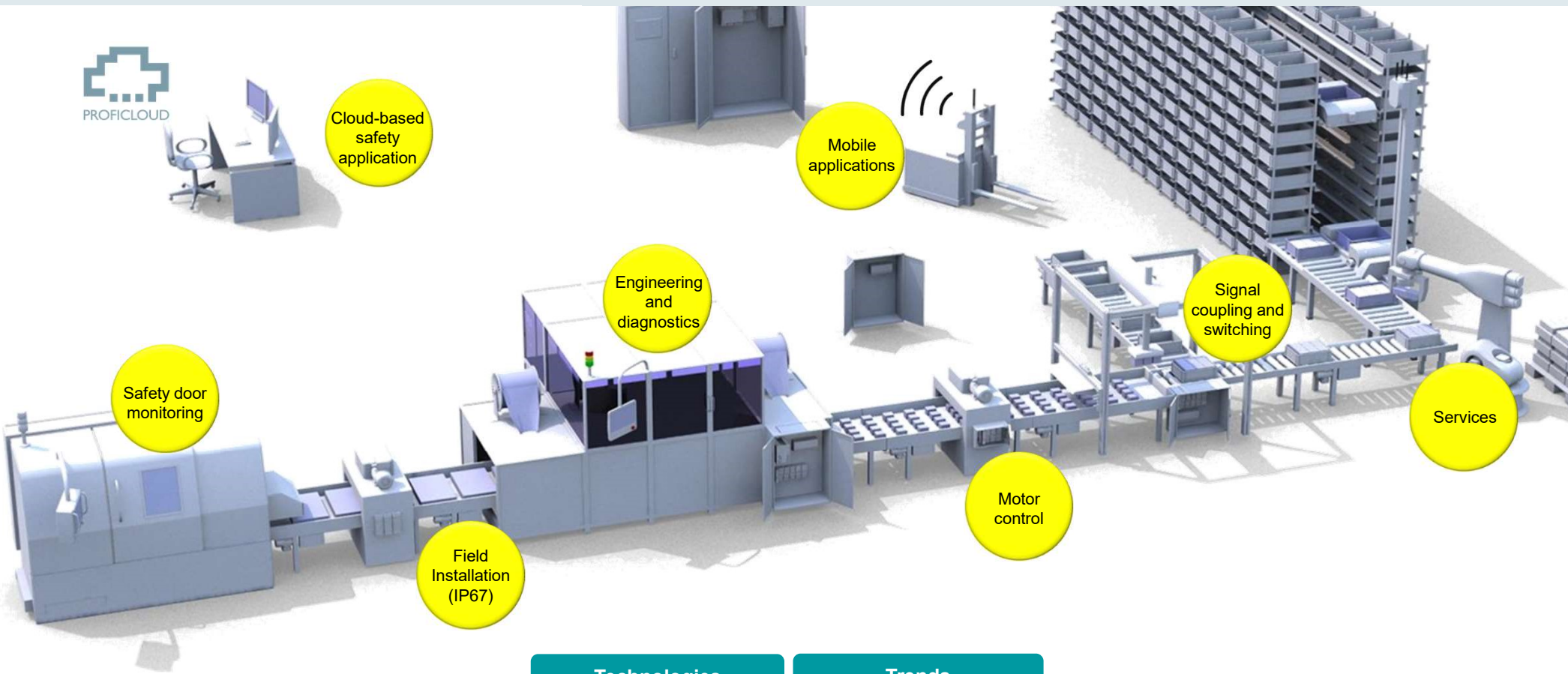
PL Functional Safety

EN ISO 12100

SIL PL e

Smart safety solutions

Best fit for market needs



Technologies		Trends	
 Products	 Safety services	 Industries	 Quality assurance

Trends
Inspiring safety technologies

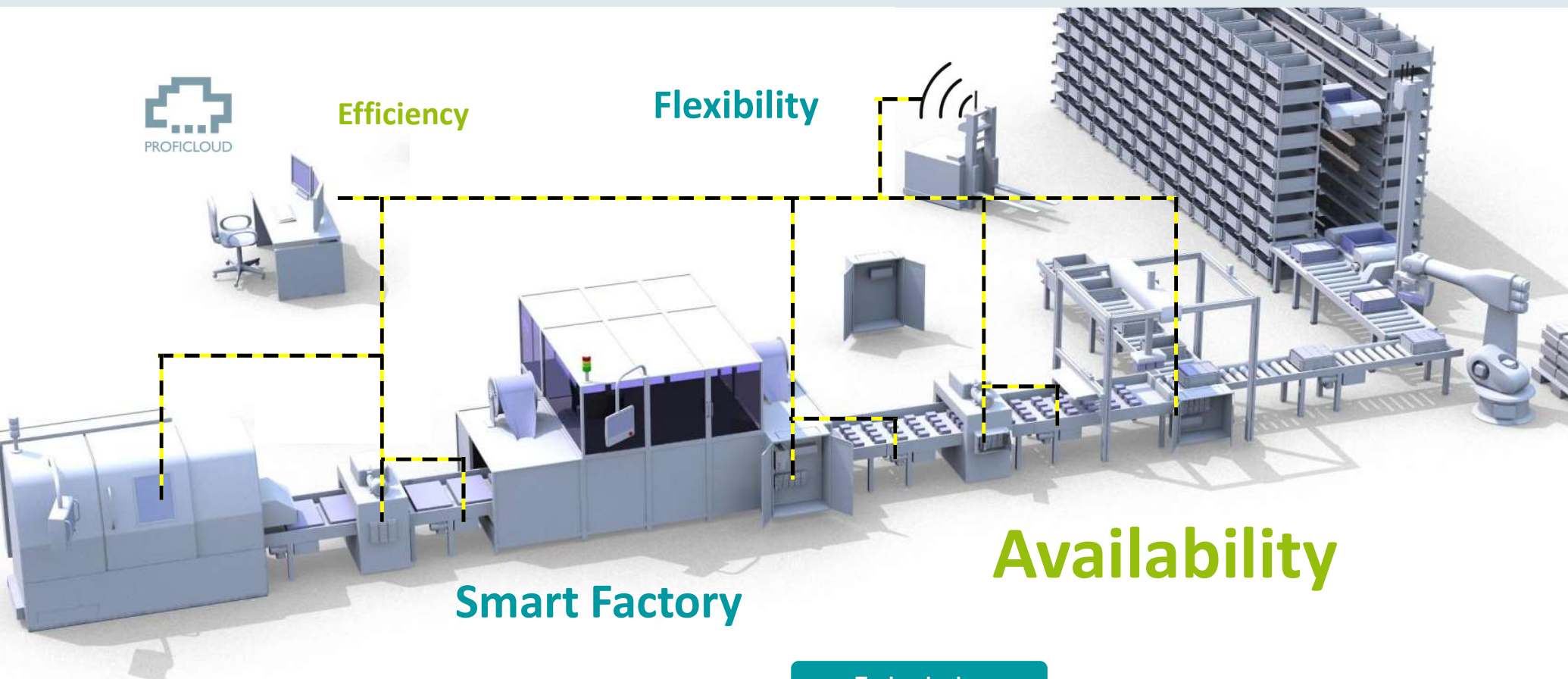


Efficiency

Flexibility

Availability

Smart Factory



Technologies



Products



Safety services



Industries



Quality assurance



Safety product portfolio

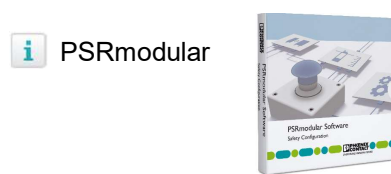
From safety switches to safe controllers



Configuration software



PSRmotion



PSRmodular



SAFECONF

Programming software



PLCnext Engineer

Signal processing

Safety relay modules
PSRmini, PSRclassic,
PSRmotion and PSRmultifunction



Sensors

Configurable safety system
PSRmodular



Signal conditioning

Safe I/O's
Axioline and Inline



Actuators

Performance controllers
RFC



Power

Safety switches
PSRswitch



Safe signal conditioners
MACX Safety



Safe motor starters
CONTACTRON



Safe power supplies
QUINT POWER

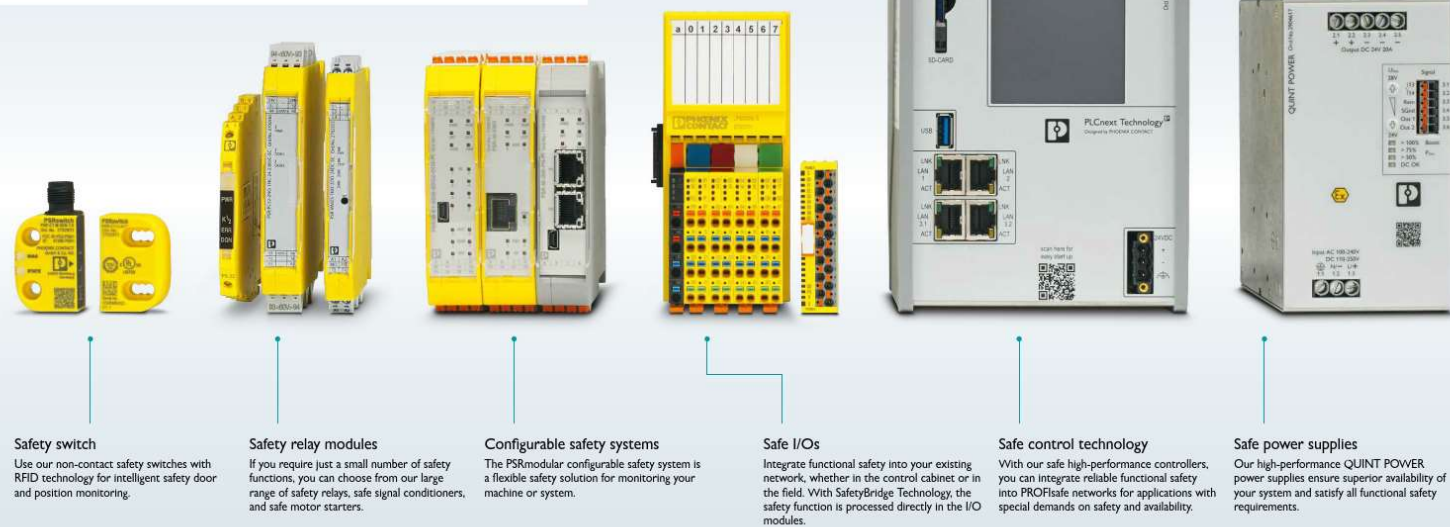


Product portfolio

We make functional safety easy. From non-contact safety switches through to complex controllers, all safety products from Phoenix Contact are SIL-certified. You can install and configure the modules easily.

Benefit from the comprehensive service offered by our certified safety experts. With our comprehensive services, we can help you to meet all machine safety requirements.

 Web code: #0299



Safety switch
Use our non-contact safety switches with RFID technology for intelligent safety door and position monitoring.

Safety relay modules
If you require just a small number of safety functions, you can choose from our large range of safety relays, safe signal conditioners, and safe motor starters.

Configurable safety systems
The PSR modular configurable safety system is a flexible safety solution for monitoring your machine or system.


Safe I/Os
Integrate functional safety into your existing network, whether in the control cabinet or in the field. With SafetyBridge Technology, the safety function is processed directly in the I/O modules.

Safe control technology
With our safe high-performance controllers, you can integrate reliable functional safety into PROFIsafe networks for applications with special demands on safety and availability.

Safe power supplies
Our high-performance QUINT POWER power supplies ensure superior availability of your system and satisfy all functional safety requirements.

Safety relays

With the PSRmini and PSRclassic safety relays from Phoenix Contact, you can implement all safety functions for applications where the motto is one function, one device. The safety relays are compatible with many signal generators such as emergency stop units, safety door switches, and light grids. The modules are available in various sizes, with various connection technologies and a wide range input.

 Web code: #1944



Relay Technology^D
Designed by PHOENIX CONTACT

Your advantages

- ✓ Space savings of up to 70% with the compact design
- ✓ Relay technology developed in-house features proven safety thanks to force-guided relay contacts
- ✓ High level of scalability, starting at just one enable contact
- ✓ Compatibility with many safety signal generators

Safety relays for machine building

Highly compact PSRmini safety relays

PSRmini safety relays are the narrowest on the market. With overall widths of just 6 and 12 mm, we provide you with proven safety thanks to relay technology developed in-house with force-guided contacts. Thanks to an innovative DIP switch concept, you can implement selected settings directly on the module. The needs-based structure starting at one enable path also ensures increased flexibility of your application without limiting performance.

Main features

- Overall width 6 mm and 12 mm
- Proven safety, thanks to force-guided relay contacts
- TÜV-certified
- Approvals for all global markets
- PL e in accordance with ISO 13849 and SILCL 3 in accordance with IEC 62061
- High level of scalability, starting at just one enabling path



PSRclassic conventional safety relays

The PSRclassic safety relays have a long proven track record. Thanks to the 2-channel wiring and force-guided contacts, you can reliably switch functions such as two-hand controllers or light grids. Screw or spring connection technology and status LEDs ensure fast wiring of contacts and easy diagnostics.

Main features

- Overall width starting at 17.5 mm
- Large selection of versions
- Proven safety, thanks to force-guided relay contacts
- TÜV-certified
- Approvals for all global markets
- PL e in accordance with ISO 13849 and SILCL 3 in accordance with IEC 62061



Modular safety relay system

Design your safety system exactly as required. Our modular safety relays can be extended easily and flexibly based on the modular principle. The PSR-TBUS DIN rail connector combines the master safety relay with up to ten extension modules directly on the DIN rail. This eliminates the need for the usual cross-wiring and configuration.

Main features

- Overall width 22.5 mm
- Can be extended to up to 42 contacts
- Proven safety, thanks to force-guided relay contacts
- TÜV-certified
- Approvals for all global markets
- PL e in accordance with ISO 13849 and SILCL 3 in accordance with IEC 62061





Relay Technology^{TV}

Designed by PHOENIX CONTACT

Your advantages

- ✓ Space savings of up to 70% with the compact design
- ✓ Relay technology developed in-house features proven safety thanks to force-guided relay contacts
- ✓ High level of scalability, starting at just one enable contact
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




The PSRmini
is safe
and slim
















PSRmini














PSRmini: Highly compact safety relays for machine building

Type	Applications								Output contacts				Safety approvals		Over-all width	Connection technology	
													PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	In mm	Screw connection	Push-in connection
PSR-MS20 ¹⁾ 24 V DC	●	●	—	●	—	—	—	A	1	—	—	1	c ⁴⁾	1 ⁴⁾	6.8	2904950	—
PSR-MS21 24 V DC	Coupling module for safe controllers						—	A	1	—	—	1	e	3	6.8	2702192	—
PSR-MS25 ¹⁾ 24 V DC	●	●	—	●	—	—	—	M	1	—	—	1	c ⁴⁾	1 ⁴⁾	6.8	2904951	—
PSR-MS30 24 V DC	●	●	—	●	—	●	—	A	1	—	—	—	e	3	6.8	2904952	—
PSR-MS35 24 V DC	●	●	—	●	—	●	—	M	1	—	—	—	e	3	6.8	2904953	—

PSRmini: Highly compact safety relays for machine building

Type	Applications								Output contacts				Safety approvals		Over-all width	Connection technology	
													PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	In mm	Screw connection	Push-in connection
PSR-MS40 ³⁾ 24 V DC	•	•	—	—	—	•	—	A	1	—	—	1	e	3	6.8	2904954	—
PSR-MS45 ³⁾ 24 V DC	•	•	—	—	—	•	—	M	1	—	—	1	e	3	6.8	2904955	—
PSR-MS50 ²⁾ 24 V DC	•	•	—	•	—	—	—	A	1	—	—	1	e	3	6.8	2904956	—
PSR-MS55 ²⁾ 24 V DC	•	•	—	•	—	—	—	M	1	—	—	1	e	3	6.8	2904957	—
PSR-MS60 ³⁾ 24 V DC	•	•	•	•	—	• ¹⁰⁾	—	A	2	—	—	—	e	3	6.8	2904958	—

PSRmini: Highly compact safety relays for machine building

Type	Applications								Output contacts				Safety approvals		Over-all width	Connection technology	
													PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	In mm	Screw connection	Push-in connection
PSR-MC20 ¹⁾ 24 V DC	•	•	—	•	—	—	—	A/M	3	—	—	1	c ⁴⁾	1 ⁴⁾	12.5	2700466	2700467
PSR-MC30 24 V DC	•	•	—	•	—	•	—	A/M	2	—	—	1	e	3	12.5	2700498	2700499
PSR-MC31 24 V DC	•	•	•	•	—	•	•	A/M	2 (pnp)	—	—	1	e	3	12.5	1015520	1015503
PSR-MC32 24...230 V DC	•	•	•	•	—	• ¹⁰⁾	—	A/M	3	—	1	—	e	3	22.5	2700524	2700525














¹⁾ 1-channel sensor circuit ²⁾ Antivalent sensor circuit ³⁾ Without cross-circuit detection ⁴⁾ Up to PL e / SILCL 3 possible depending on the application

⁵⁾ EN 81 approval ⁶⁾ In conjunction with suitable evaluation device ⁷⁾ Non-delayed contacts: Cat. 4 / PL e, SILCL 3; contacts with dropout delay: Cat. 3 / PL d, SILCL 2














⁸⁾ Type IIIA in accordance with EN 574 ⁹⁾ Type IIIC in accordance with EN 574 ¹⁰⁾ Also compatible with PSRswitch ¹¹⁾ IO-Link device ¹²⁾ Safety relay for CONTACTRON pro

A = autostart, M = manual, monitored start














PSRmini: Highly compact safety relays for machine building

Type	Applications								Output contacts				Safety approvals		Over-all width	Connection technology	
													PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	In mm	Screw connection	Push-in connection
PSR-MC34 24 V DC	•	•	–	•	–	•	–	A/M	3	–	–	1	e	3	12.5	2700540	2700548
PSR-MC37 ³⁾ 24 V DC	•	•	–	•	–	–	–	A	3	–	1	1	e	3	22.5	2702411	2702412
PSR-M38 ¹²⁾ 24 V DC	•	•	•	•	–	• ¹⁰⁾	–	A/M	2	–	–	1	e	3	22.5	1009831	1009832
PSR-MC40 ³⁾ 24 V DC	•	•	•	•	–	• ¹⁰⁾	–	A/M	3	–	–	1	e	3	12.5	2700569	2700570
PSR-MC42 ¹¹⁾ 24 V DC	•	•	•	•	–	• ¹⁰⁾	–	A/M	2	–	–	1	e	3	17.5	2702801	2702902

PSRmini: Highly compact safety relays for machine building

Type	Applications								Output contacts				Safety approvals		Overall width	Connection technology	
													PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	In mm	Screw connection	Push-in connection
PSR-MC43 ¹¹⁾ 24 V DC	•	•	•	•	–	• ¹⁰⁾	–	A/M	2 (pnp)	–	–	1	e	3	17.5	1087561	1087569
PSR-MC45 24 V DC	•	•	•	•	–	•	–	A/M	3	–	–	1	e	3	22.5	1082024	1082029
PSR-MC50 ²⁾ 24 V DC	•	•	–	•	–	–	–	A/M	3	–	–	1	e	3	12.5	2700553	2700564
PSR-MC60 ⁸⁾ 24 V DC	–	–	–	–	•	–	–	A	2	–	–	1	c	1	12.5	2700571	2700572
PSR-MC62 ⁹⁾ 24 V DC	–	–	–	–	•	–	–	A	2	–	–	1	e	3	12.5	2700574	2700575

PSRmini: Highly compact safety relays for machine building

Type	Applications								Output contacts				Safety approvals		Over-all width	Connection technology	
													PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	In mm	Screw connection	Push-in connection
PSR-MC70 24 V DC	●	●	●	●	—	● ¹⁰⁾	—	A/M	1	1	—	1	c ⁴⁾	1 ⁴⁾	12.5	2702094	2702095
PSR-MC72 24 V DC	●	●	●	●	—	● ¹⁰⁾	—	A/M	1	1	—	1	e	3	12.5	2702096	2702097
PSR-MC73 24 V DC	●	●	●	●	—	● ¹⁰⁾	—	A/M	3	2	—	1	e	2	22.5	1015533	1015526
PSR-MC82 24 V DC	Contact extension						—	—	5	—	1	1	e ⁶⁾	3 ⁶⁾	17.5	2702382	2702383

¹⁾ 1-channel sensor circuit ²⁾ Antivalent sensor circuit ³⁾ Without cross-circuit detection ⁴⁾ Up to PL e / SILCL 3 possible depending on the application

⁵⁾ EN 81 approval ⁶⁾ In conjunction with suitable evaluation device ⁷⁾ Non-delayed contacts: Cat. 4 / PL e, SILCL 3; contacts with dropout delay: Cat. 3 / PL d, SILCL 2













⁸⁾ Type IIIA in accordance with EN 574 ⁹⁾ Type IIIC in accordance with EN 574 ¹⁰⁾ Also compatible with PSRswitch ¹¹⁾ IO-Link device ¹²⁾ Safety relay for CONTACTRON pro

A = autostart, M = manual, monitored start















PSRclassic













PSRclassic: Conventional safety relays for machine building

Type	Applications							Output contacts				Safety approvals		Connection technology	
												PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	Screw connection	Push-in connection
PSR-ESA2-B 24 V AC/DC	•	•	—	—	—	—	A	4	—	1	—	c ²⁾	1 ²⁾	2963802	2963954
PSR-ESAM2/3X1-B 230 V AC/DC	•	•	—	—	—	—	A/M	3	—	1	—	c ²⁾	1 ²⁾	2901430	2901431
PSR-ESAM4/2X1 24 V AC/DC	•	•	—	—	—	—	A/M	2	—	1	—	e	3	2900525	2900526
PSR-ESAM4/3X1-B Voltage variants	•	•	—	—	—	—	A/M	3	—	1	—	e	3	See catalog for ordering data	

PSRclassic: Conventional safety relays for machine building

Type	Applications							Output contacts				Safety approvals		Connection technology	
												PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	Screw connection	Push-in connection
PSR-ESAM4/8X1 24 V AC/DC	•	•	–	–	–	–	A/M	8	–	1	–	e	3	2963912	2963996
PSR-ESD-30 24 V DC	•	•	•	•	–	•	A/M	2	2	–	–	e	3	2981800	2981813
PSR-ESD-300 24 V DC	•	•	•	–	–	•	A/M	3	2	1	–	e ⁴⁾	3 ⁴⁾	2981428	2981431
PSR-ESL4 ¹⁾ 24 V AC/DC	•	•	•	–	–	•	A/M	3	–	1	–	e	3	2981059	2981062

PSRclassic: Conventional safety relays for machine building

Type	Applications							Output contacts				Safety approvals		Connection technology	
												PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	Screw connection	Push-in connection
PSR-THC4 ³⁾ 24 V AC/DC	—	•	—	—	•	—	A	2	—	1	—	e	3	2963721	2963983
PSR-URML4 ¹⁾ 24 V DC	Contact extension for OSSD signals							3	—	1	—	e	3	2903583	2903584
PSR-URM4 42 ... 230 V AC/DC	Contact extension							4	—	2	—	e ³⁾	3 ³⁾	2702924	2702925
PSR-URM4 24 V AC/DC	Contact extension							5	—	2	—	e ³⁾	3 ³⁾	2963734	2964005
PSR-URM4-B 24 V AC/DC	Contact extension							5	—	2	—	e ³⁾	3 ³⁾	2981033	2981046

¹⁾ Without cross-circuit detection ²⁾ Up to PL e / SILCL 3 possible depending on the application ³⁾ In conjunction with suitable evaluating device













⁴⁾ Non-delayed contacts: Cat. 4 / PL e, SILCL 3, contacts with dropout delay: Cat. 3 / PL d, SILCL 2 ⁵⁾ Type IIIC in accordance with EN 574













A = autostart, M = manual, monitored start



Modular safety relay Safety Relay - Phoenix Contact

Modular safety relay system

Type	Applications							Output contacts				Safety approvals		Connection technology	
												PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	Screw connection	Push-in connection
PSR-SDC4 24 V DC	•	•	•	•	–	•	A/M	2	–	–	1	e	3	2981486	2981499
PSR-URM4/B 24 V DC	Contact extension							4	–	2	–	e	3	2981677	2981680
PSR-URD3/3 24 V DC	Contact extension							–	4	2 ¹⁾	–	e	3	2981732	2981745
PSR-URD3/30 24 V DC	Contact extension							–	4	2 ¹⁾	–	e	3	2981512	2981525

Modular safety relay system															
Type	Applications							Output contacts				Safety approvals		Connection technology	
												PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	Screw connection	Push-in connection
PSR-URD3/T2 24 V DC	Contact extension							–	4	2 ¹⁾	–	e	3	2981703	2981729
PSR-SIM4	IP20 input extension – interface module for up to four safety sensors													2981936	2981949
PSR-SACB...	IP65 / IP67 input extension – sensor box for up to four safety sensors, available with 5 m and 10 m cable lengths													5 m	2981871
														10 m	2981884

¹⁾ Delayed, A = autostart, M = manual, monitored start

Smart safety solutions

Motor control



Motor control

Excessive speeds pose a danger to people and machinery. Zero-speed and over-speed safety relays shut down rotating machine parts safely in the event of an emergency.

[Learn more](#)

Smart safety solutions

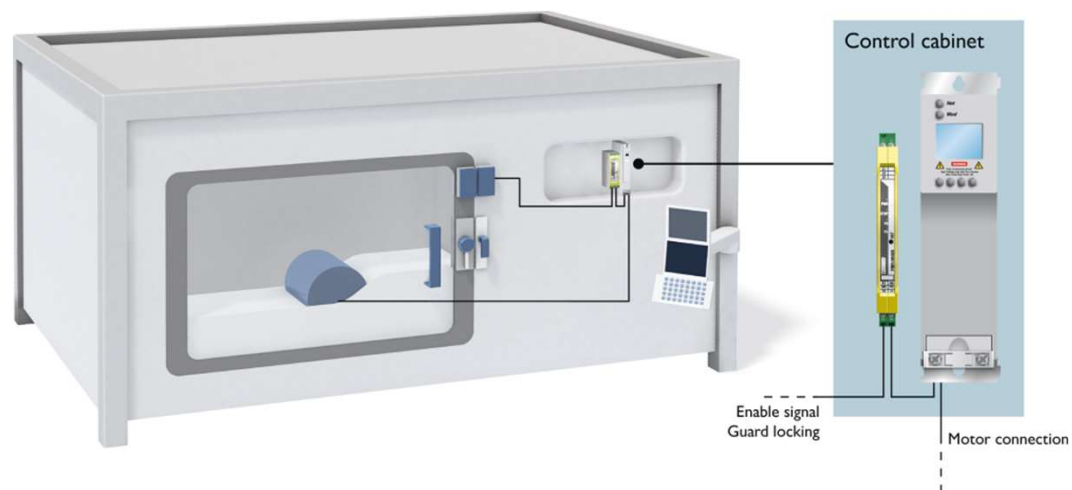
Safe motion monitoring of motors



Monitoring single-phase and three-phase AC motors

Sensorless measurement is suitable for connection to controlled and uncontrolled motors. Usually, the user connects the measuring leads on the output side to the motor contactors or the frequency inverter. The sensors required for motion monitoring can be dispensed with here.

Vibrations during standstill often lead to malfunctions in sensor-supported measuring systems. PSRmotion uses a measurement method based on remanence voltage that remains available even under external influences.



Smart safety solutions

Safe motion monitoring of motors



**Over-speed
and zero-speed safety
relays**
PSRmotion



**Safe hybrid motor
starters**
CONTACTRON pro



Safe motion monitoring of motors

The PSR-MM30 zero-speed and over-speed safety relay also monitors the speed and disconnects safely in the event of danger.

Combined with a safety door unit, the PSR-MM25 zero-speed safety relay without sensor ensures that the door remains locked until the dangerous motion stops.

- ✓ Highly compact design
- ✓ Easy setup for fast commissioning
- ✓ Innovative measurement methods for highest system availability
- ✓ Easy configuration via buttons on the product or with the **PSRmotion software**, including live monitoring

Over-speed and zero-speed safety relays

Excessive speeds pose a danger to people and machinery. The compact PSRmotion over-speed and zero-speed safety relays shut down rotating machine parts safely in the event of an emergency. Combined with a safety door unit, the PSR-MM2s zero-speed safety relay without sensor ensures that the door remains locked until the dangerous motion stops. The PSR-MM30 over-speed and zero-speed safety relay also monitors the speed and disconnects safely in the event of danger.

1 Web code: [p1546](#)



Relay Technology[®]
Designed by PHOENIX CONTACT

Your advantages

- ✓ Space savings of up to 75%, thanks to the compact design
- ✓ Relay technology developed in-house features proven safety thanks to force-guided relay contacts
- ✓ Easy configuration via buttons on the product
- ✓ Fast configuration and live monitoring with the PSRmotion software

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Over-speed and zero-speed safety relays for motion monitoring

PSRmotion over-speed and zero-speed safety relays

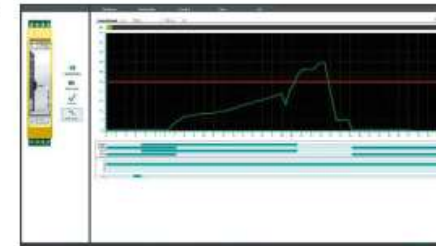
With the combined PSR-MM30 over-speed and zero-speed safety relay, you can monitor up to three different operating modes in addition to zero-speed mode. The PSR-MM30 ensures high system availability, thanks to the reliable measuring procedure. The integrated safety door monitoring system makes it compatible with PSRawitch non-contact safety switches.

- Main features**
- Overall width 22.5 mm
 - Compatible with modern safety encoders up to SIL 3
 - Up to SIL 3 and PL u
 - Startup via USB connection
 - Force-guided relay outputs
 - Configurable signal outputs



Live monitoring with the PSRmotion software

The PSR-MM30 over-speed and zero-speed safety relay can be commissioned, configured, and monitored conveniently with the PSRmotion software. In live measuring operation, you can visualize the motion sequences of your machine. You can download the Windows-based software free of charge. Adaptations are implemented via a USB interface.



PSRmotion
Configuration Software

PSRmotion zero-speed safety relays

The highly compact PSR-MM2s safety relay module monitors the downtime of single and three-phase AC and DC motors without additional sensor technology. The residual voltage induced by the motor windings is analysed in order to detect zero speed.

- Main features**
- Overall width 12.5 mm
 - Easy startup via configuration button
 - Can be used for machines with or without frequency converters
 - Force-guided relay outputs
 - Two signal outputs



PHOENIX CONTACT 19

Over-speed and zero-speed safety relays

Excessive speeds pose a danger to people and machinery. The compact PSRmotion over-speed and zero-speed safety relays shut down rotating machine parts safely in the event of an emergency. Combined with a safety door unit, the PSR-MM25 zero-speed safety relay without sensor ensures that the door remains locked until the dangerous motion stops. The PSR-MM30 over-speed and zero-speed safety relay also monitors the speed and disconnects safely in the event of danger.

i Web code: #1546

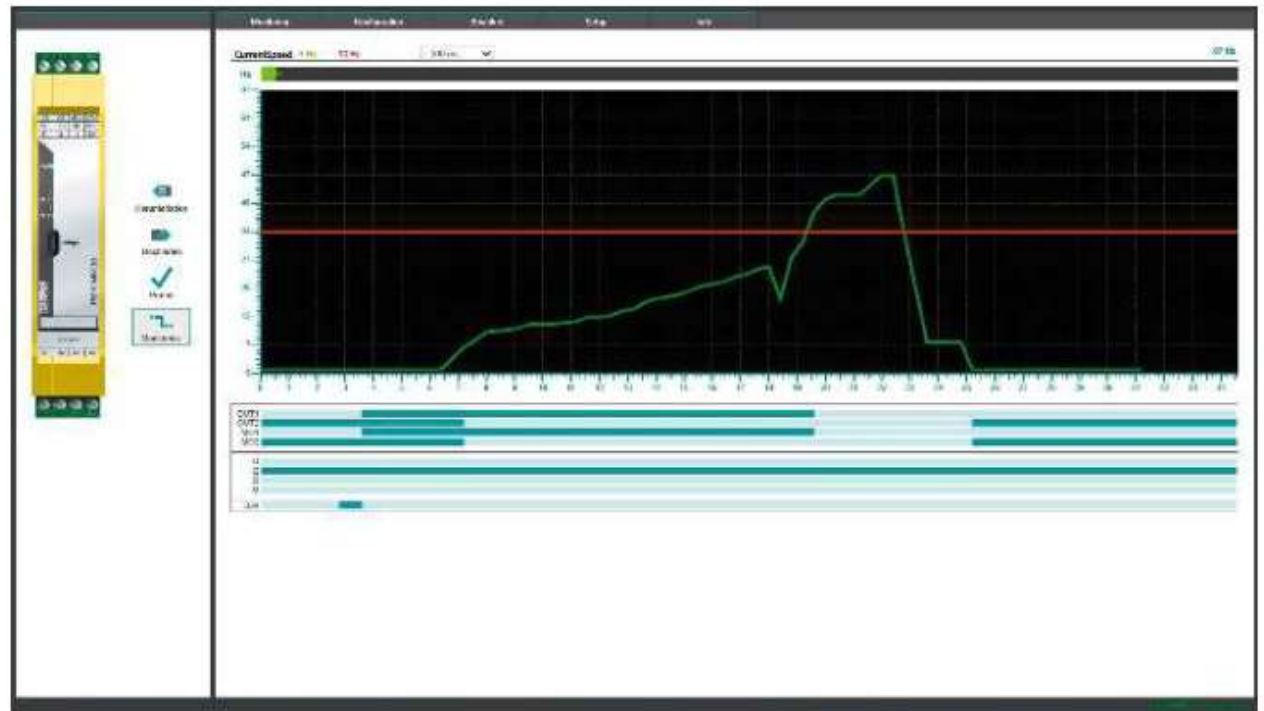


Live monitoring with the PSRmotion software

The PSR-MM30 over-speed and zero-speed safety relay can be commissioned, configured, and monitored conveniently with the PSRmotion software.

In live measuring operation, you can visualize the motion sequences of your machine. You can download the Windows-based software free of charge. Adaptations are implemented via a USB interface.

PSRmotion
Configuration Software



PSRmotion zero-speed safety relays

The highly compact PSR-MM25 safety relay module monitors the downtime of single and three-phase AC and DC motors without additional sensor technology. The residual voltage induced by the motor windings is analyzed in order to detect zero speed.

Main features

- Overall width 12.5 mm
- Easy startup via configuration button
- Can be used for machines with or without frequency converters
- Force-guided relay outputs
- Two signal outputs



Products

Hybrid motor starters



Hybrid motor starters CONTACTRON

The safe hybrid motor starters combine up to four functions in one device: emergency stop, motor starter, reversing function, and motor protection against overload.

- ✓ Integrated safety function up to SIL 3 and Category 3 / PL e
- ✓ Narrow design with an overall width of 22.5 mm
- ✓ Adjustable motor protection with bimetal function up to 9 A
- ✓ Integrated locking circuit and load wiring
- ✓ Smooth switching with CONTACTRON hybrid motor starter technology

CONTACTRON Hybrid Technology¹³

Designed by PHOENIX CONTACT

Push-in Technology¹³

Designed by PHOENIX CONTACT

Hybrid motor starters

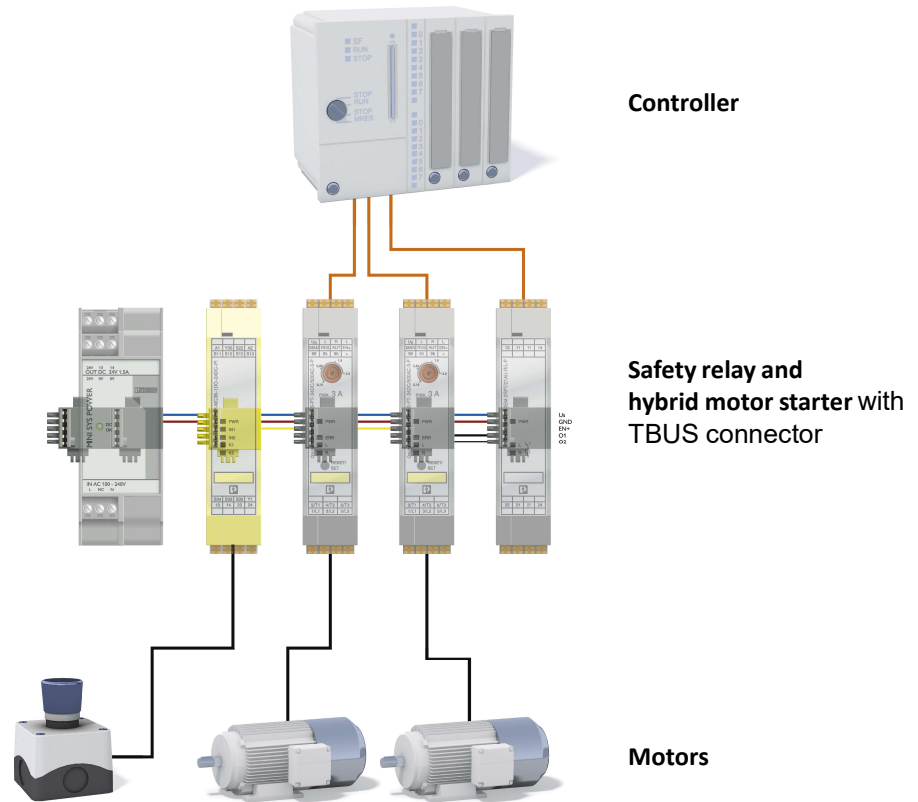
Safe and low-wear motor switching



Safe and low-wear motor switching

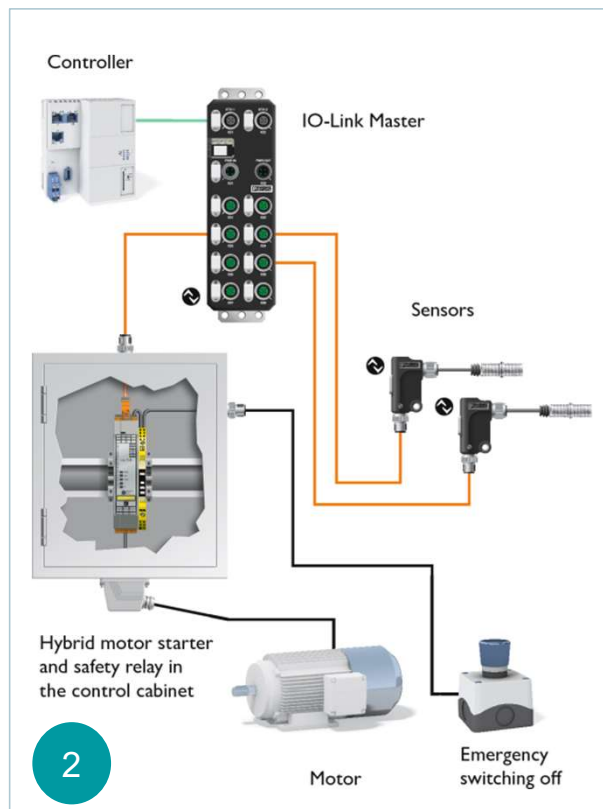
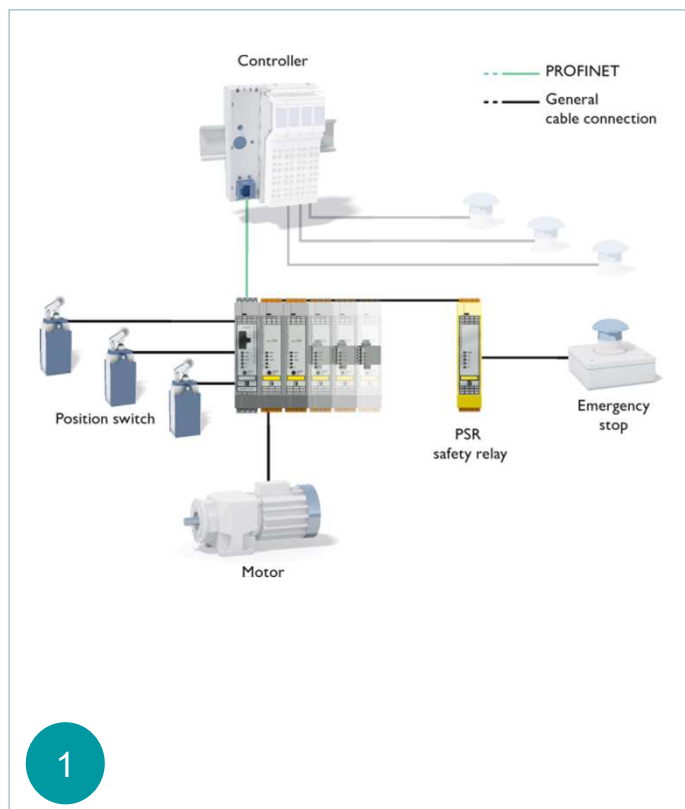
The PSRmini safety relay (PSR-MC38) ensures the safety-related shutdown of a motor via the CONTACTRON pro hybrid motor starter.

You can connect the switchgear simply, quickly and modularly via the TBUS connector.



Hybrid motor starters

Consistent networking via the interface system IO-Link



Network-capable motor starters

In addition to standard devices for parallel wiring, network-capable versions are also available.

The network-capable versions enable consistent communication between the field and control level. The integration into all common fieldbus systems is realized via the interface system or IO-Link.

1. Fieldbus connection via interface system (IFS)
2. Hybrid motor starters for networking with IO-Link

Smart safety solutions

Signal coupling and switching



Safety relays
PSRmini and PSRclassic



Multifunctional safety relays
PSRmultifunction



Safe coupling relays
PSRmini and PSRclassic

Products

Highly-compact safety relays



Highly-compact safety relay PSRmini - one function, one device

PSRmini safety relays are the narrowest on the market. Thanks to an innovative DIP switch concept, you can implement selected settings directly on the module. The needs-based structure starting at one enable path also ensures increased flexibility of your application without limiting performance.

- ✓ Overall width 6 mm and 12 mm
- ✓ Proven safety, thanks to force-guided relay contacts
- ✓ TÜV-certified and approvals for all global markets
- ✓ PL e in accordance with ISO 13849 and SILCL 3 in accordance with IEC 62061

[Product list](#)



Conventional safety relay PSRclassic - one function, one device

The PSRclassic safety relays have a long proven track record. Thanks to the 2-channel wiring and force-guided contacts, you can reliably switch functions such as two-hand control devices or light grids. Screw or spring connection technology ensure fast wiring of contacts.

- ✓ Overall width from 17.5 mm
- ✓ Large selection of variants
- ✓ Status LEDs ensure easy diagnostics
- ✓ Proven safety, thanks to force-guided relay
- ✓ TÜV-certified and approvals for all global markets
- ✓ PL e in accordance with ISO 13849 and SILCL 3 in accordance with IEC 62061

Quality assurance

Certified products and processes



Quality assurance over the product lifecycle

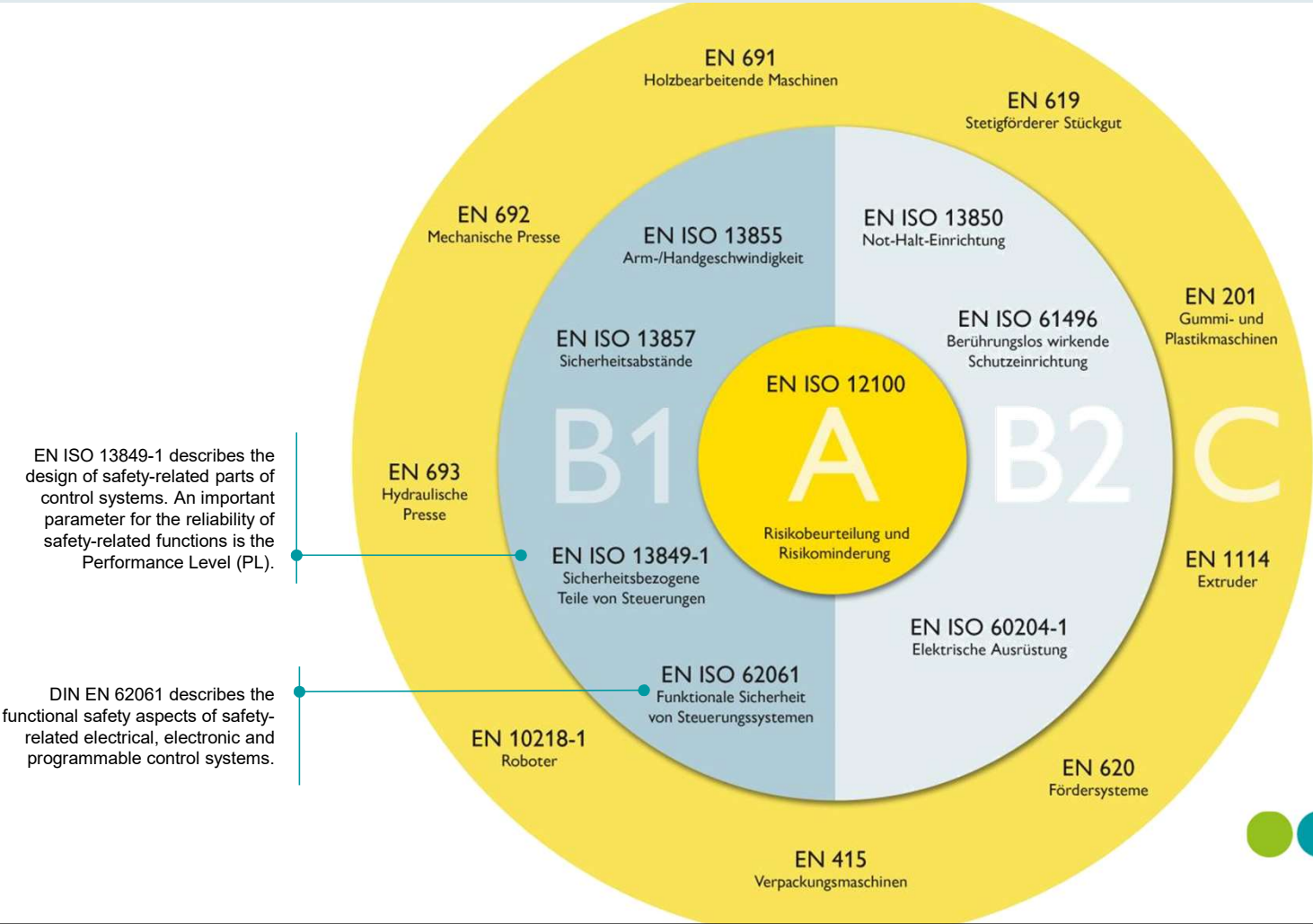
- Certified Functional Safety Management (FSM)
- Independent product certifications
- Qualified personnel (FS Engineers)
- Application oriented services and support
- Qualified training programs

Certified and tested for your application

- EN 50205 force-guided contacts
- EN ISO 13849-1 and EN 62061 for machine building
- IEC 61508/61511 for the process industry
- EN 50156 for use in furnaces, steam generators, waste heat boilers, rotary furnaces and hot gas generators
- Germanic Lloyd (GL) for use in shipbuilding and offshore systems
- SIL 1, 2 and 3

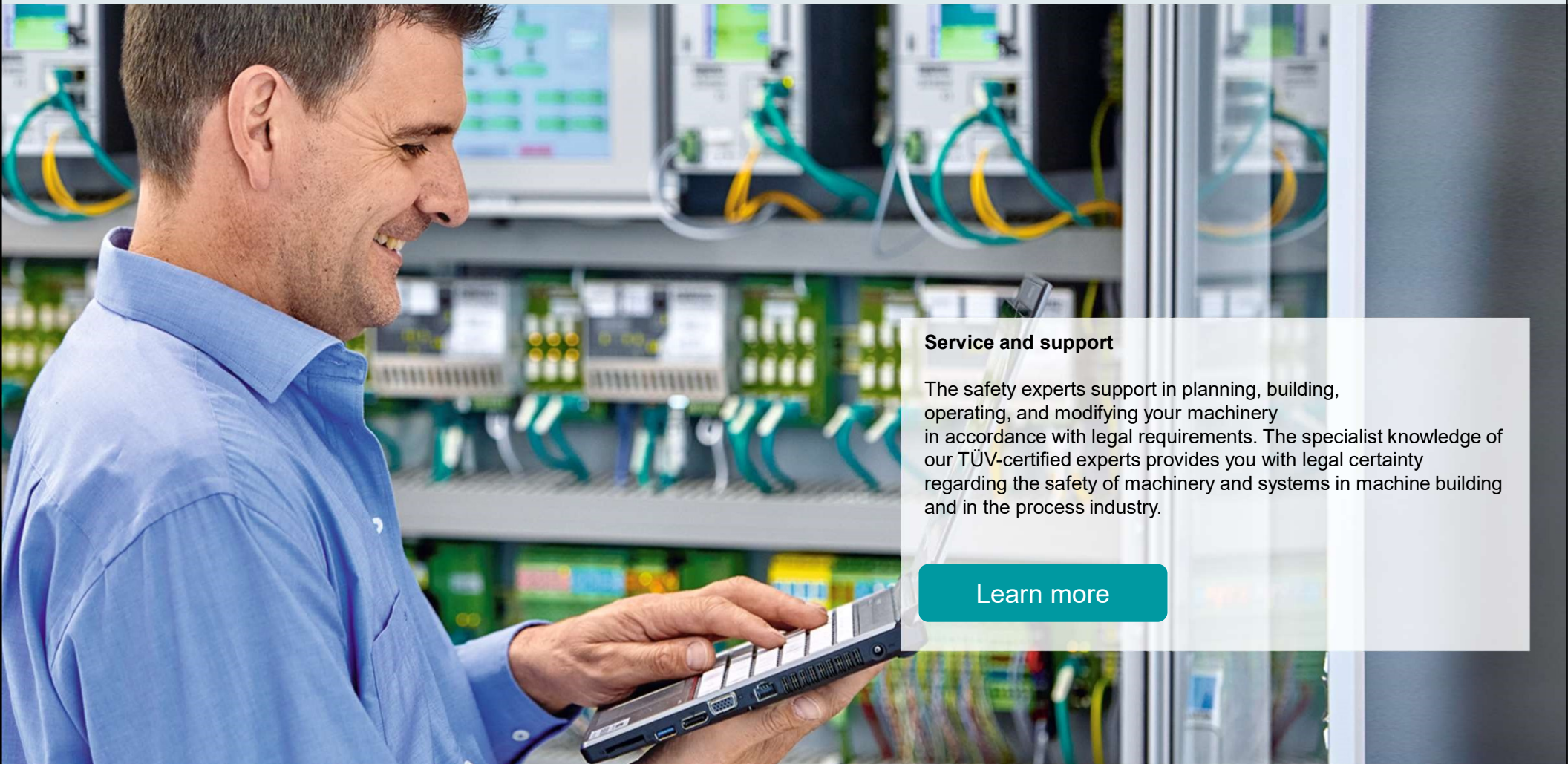
Safety standards and regulations

to better control your safety critical processes



Safety service and support

Worldwide support from TÜV certified experts



Service and support

The safety experts support in planning, building, operating, and modifying your machinery in accordance with legal requirements. The specialist knowledge of our TÜV-certified experts provides you with legal certainty regarding the safety of machinery and systems in machine building and in the process industry.

[Learn more](#)

Safety service and support

Services for machine and system safety



Consulting

We provide advice on various subjects in the planning and implementation of your system:

- Design of the safety lifecycle: standards and their implementation
- Machinery Directive
- Changes to machinery and systems



Engineering

To assess the safety integrity, we determine the SIL of the safety functions with the help of your technical documentation. These must be sufficiently robust to withstand random errors. In the case of Machinery Directive requirements, we implement the entire **safety lifecycle process**.



Product support

We provide support regarding any Phoenix Contact safety hardware and software questions. You can contact our support team regarding anything – from the preliminary technical clarification, through planning and implementation, right through to operation



Seminars and trainings

We offer instruction and practical training that is tailored to your individual requirements, e.g. safety application software:

- Demands on safety-related software
- Specification of safety requirements and software
- Realization of safety functions

Safety service and support

Services for safety in the process industry



Demands on safety in the process industry

Design guidelines relating to functional safety are in place for the requirements on the safe operation of systems in the process industry. The internationally harmonized procedure is described in IEC 61511.

A significant component of this is the safety lifecycle in conjunction with functional safety management.

Seminars for functional safety in the process industry in accordance with EN 61511:

- Risk analysis
- Safety lifecycle
- Creation of process control technology

Successful in use
Industries



Machine building



Automotive



Process industry



Industries

Machine building



- ✓ Wide product portfolio with compatibility to a large number of sensors
- ✓ In-house mechanical engineering supports all business fields of Phoenix Contact as well as the developing and producing sites worldwide
- ✓ Approvals for markets around the world such as EN ISO 13849-1 and EN 62061

Industries

Automotive



- ✓ Reliable automation developed specially for high-end applications with efficient PROFIsafe safety controllers
- ✓ EN ISO 13849-1 and EN 62061
- ✓ Labs-free components to prevent defects on the end product (substances which interfere the lacquering process)

Progressive through innovative technologies

Relay Technology



Relay Technology from Phoenix Contact

Phoenix Contact has developed a narrow force-guided elementary relay which features full performance with an overall width of just 6 mm.

The miniaturization of mechatronic functions enables modular safety concepts, as required for IIoT. With a switching capacity of 6 ampere, the relay ensures superior availability, thanks to a redundant diagnostic contact, and enabled us to develop the PSRmini safety relay in a 6 mm housing.

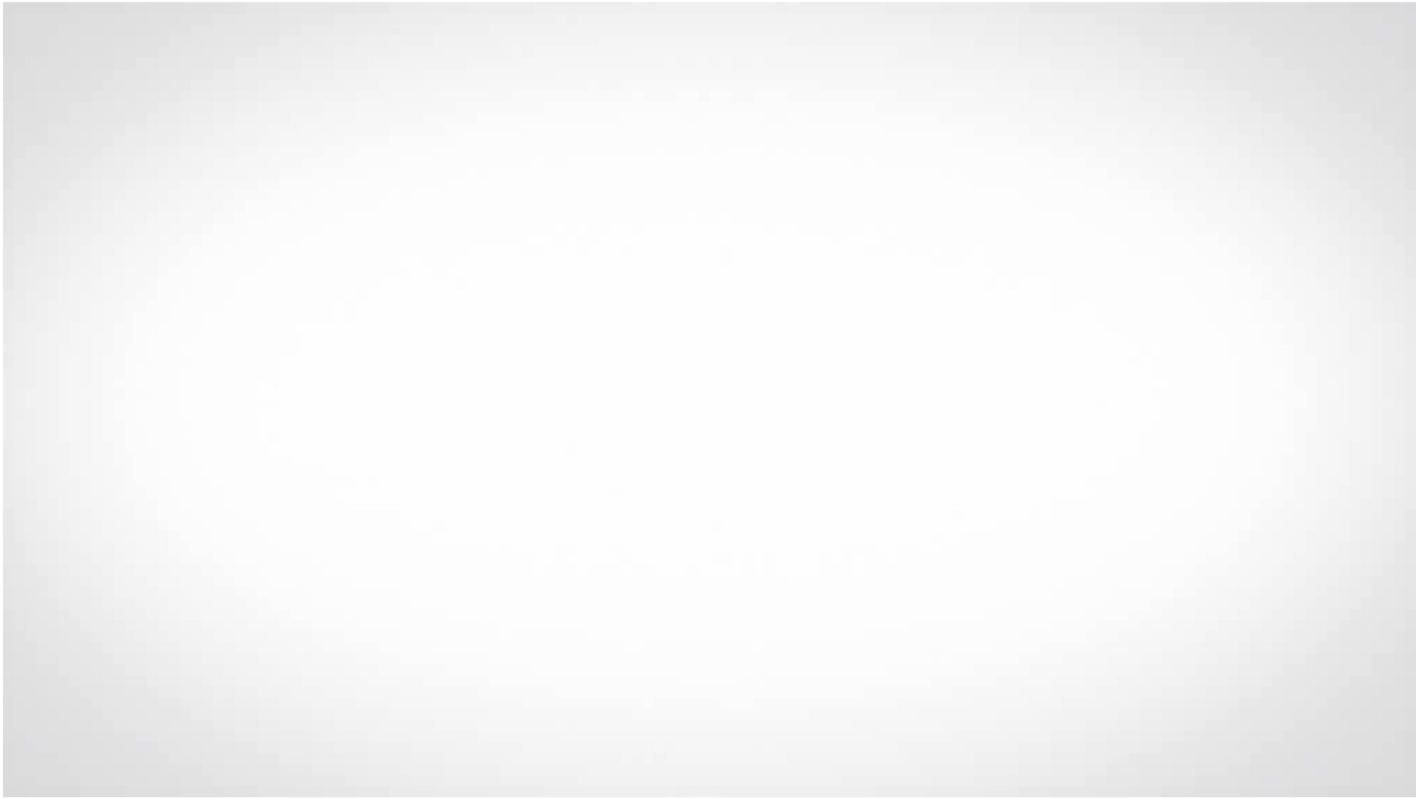
[Watch movie](#)

Relay Technology[®]
Designed by PHOENIX CONTACT



Progressive through innovative technologies

Relay Technology



Relay Technology¹²
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Thank you

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