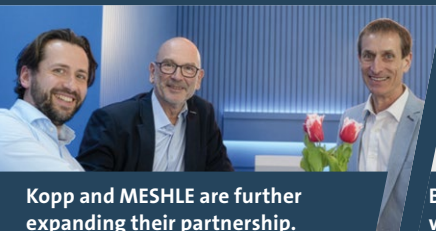


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KOPP Product news



The 2-socket power socket,
now with plug-in terminals



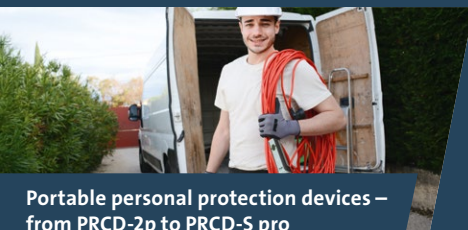
Kopp and MESHLE are further
expanding their partnership.



Blind/roller shutter switches and push-buttons
with a central position and a rocker switch



A comprehensive overview: The
Kopp Specialist Retail Catalogue



Portable personal protection devices –
from PRCD-2p to PRCD-S pro

Clever sein.
Kopp einschalten.

Kopp

Ideal for renovation, modernisation and retrofitting:

The 2-socket power socket, now with plug-in terminals

The requirements for modern electrical installations are constantly evolving. In addition to high functionality, the focus today is above all on quick installation, compliance with standards and maximum safety. The latest generation of 2-socket outlets meets precisely these requirements.

This space-saving solution allows two sockets to be integrated into a single flush-mounted box. This enables additional connection points to be created without having to install further switch boxes or carry out extensive alterations. This offers a decisive advantage, particularly during renovations, modernisations and retrofits.

The most significant innovation: the move from screw terminals to modern plug-in terminals

The current product generation represents a significant technological advance. Whilst the 2-socket outlet was previously fitted with traditional screw terminals, modern plug-in terminals are now used. For installers, this means significantly faster and more convenient wiring. Wires can be connected directly and securely, thereby reducing the effort involved in fitting and shortening installation times.

At the same time, the plug-in terminals ensure a permanently reliable connec-

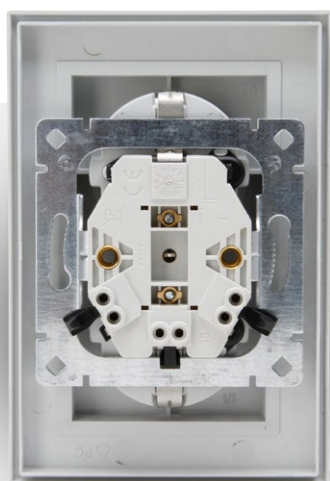
tion and reflect the current state of the art in electrical installation technology.

Complies with standards and is NEMKO/SEMKO certified

With the switch to plug-in terminals, the 2-socket outlet meets the current requirements and standards for modern electrical installations.

Furthermore, the product is NEMKO/SEMKO-certified, offering additional safety and the assurance that the socket has been tested in accordance with recognised quality and safety standards.





More performance in the same space

The 2-socket outlet for the 1-socket flush-mounted box combines a space-saving design with modern connection technology, standard-compliant construction and certified safety. Thanks to the switch from screw terminals to plug-in terminals, installation is now even simpler and more efficient. The latest generation of the 2-socket outlet thus impressively demonstrates how intelligent product developments simplify the day-to-day work of electricians whilst meeting the requirements of modern installations.



Further information
on the Kopp HK07 at
www.kopp.eu

All-in-one unit for easy installation

The double socket is supplied as a complete unit and already contains all the necessary components. This simplifies installation considerably and ensures a neat, professional finish. At the same time, users benefit from a ready-to-use solution featuring high-quality workmanship and a long service life.

Perfectly matched to the HK07 switch range

As well as its technical advantages, the double socket is also visually appealing. It is fully compatible with the HK07 switch range and blends seamlessly into existing installations.

This creates a consistent look in living spaces, offices and commercial premises.

Kopp and MESHLE are further expanding their collaboration.

As part of the partnership, selected smart home and building automation products from Kopp will be integrated into the MESHLE ecosystem and supported via the MESHLE platform and the MESHLE app.

This enables specialist partners, planners and end-users to benefit from a multi-vendor solution for wireless control and building automation, ranging from lighting and blind control to other smart functions within the building.

The portfolio includes, amongst other things, switch, dimmer and blind actuators, as well as other smart control components, such as freely positionable, self-powered switches that can be flexibly integrated into modern smart home and commercial projects.

Our aim is to offer users solutions that are both powerful and easy to use. The integration of our products into the MESHLE ecosystem creates additional opportu-

nities for connected applications in residential and commercial buildings. MESHLE is a Bluetooth mesh-based platform for controlling lighting and building automation. Thanks to this integration, Kopp products can be used alongside other components within a unified system and managed via a central app. For almost 100 years, Kopp has been synonymous with reliable products and high quality in the field of electrical installation. We are delighted to offer these solutions as part of the MESHLE ecosystem and to work together to realise further applications for smart buildings. This collaboration underlines the shared goal of both companies to make modern



building automation more accessible and to provide users with flexible solutions for projects of varying scales.



For more information
on Kopp Blue-control,
visit www.kopp.eu



For more information
about the MESHLE app,
visit www.meshle.com



Technology, application and appropriate design

Blind/roller shutter switches and push-buttons with a central position and a rocker switch

Electric blinds and roller shutters are now standard features in modern buildings. They provide privacy, regulate the amount of light entering a room and improve energy efficiency. The appropriate control system plays a key role in their operation.

What is a blind/roller shutter switch with a middle position?

A switch/push-button with a neutral position has three fixed positions: 'Up', 'Stop' and 'Down'. Unlike a push-button, the switch remains in the selected position until it is manually changed.

The middle position plays a key role here: it cuts off the power supply to the motor and ensures that the drive stops reliably. This protects the mechanical components and prevents unnecessary strain on the system.

Flat rocker switch instead of a standard rocker switch: modern design and ease of use

Most traditional blind switches and push-buttons are fitted with standard rocker switches. However, the flat rocker switch on blind and roller shutter switches makes operation much more intuitive, convenient and less prone to errors.

- In the top position, the blind moves upwards.
- In the bottom position, it moves downwards.
- In the middle position, the movement stops immediately.

Technically, the switch controls the power supply to the motor's respective control lines. Modern models also feature an electrical or mechanical interlock that prevents both directions from being activated at the same time – an important safety feature.

Advantages of a switch/push-button with a neutral position

A blind/roller shutter switch and push-button with a neutral position offers several practical advantages:

- Precise control over the position of the blind.
- One-button operation (UP – STOP – DOWN commands via a single rocker switch)
- Precise stopping of the blind in any position.
- No accidental continued running of the motor.
- Simple operation without complicated control systems.
- Easy integration into traditional installations.
- Low-maintenance and durable technology.
- Push-button without a latching function

An additional advantage of a push-button switch with a central position is that there is no need to lock the motor control.

The rocker switch is always operated via the neutral central position, thereby automatically interlocking the two directions of travel (up and down) – it is mechanically impossible to activate both directions simultaneously. To control the motor, the rocker switch is pressed in the desired direction of travel (UP or DOWN) and held down until the motor has reached its desired position. When the rocker switch is released, the motor stops automatically and the switch springs back to the neutral centre position (momentary-action function; the control signal is not held automatically).

Design and integration: Designed to match HK07, colour: pure white

As well as functionality, design also plays an important role – particularly in visible living and working areas. The blind switch with a central position blends seamlessly into the HK07 switch range in pure white.

- A consistent look with other switches and sockets.
- A high-quality appearance for modern living and working environments.
- Harmonious integration into existing installations.

The switch thus combines technical reliability with a clean, contemporary design.

A comprehensive overview of the latest solutions in the field of modern electrical installations and safety technology.

The Kopp Specialist Retail Catalogue

With this latest edition, specialist contractors and planners have a compact reference guide to high-quality products and innovative technologies. The catalogue brings together the entire range in a clear and organised manner in one place, thereby making it easier to select suitable components for a wide variety of applications.

The focus is, amongst other things, on the new flush-mounted sockets and several switch ranges for flush-mounted and surface-mounted installations. The range is complemented by intelligent smart home solutions that combine convenience, energy efficiency and security. Motion and presence detectors are also part of the range and support demand-based control of lighting and building services. In the area of occupational safety, the catalogue also includes mobile personal protective equipment that provides additional safety, particularly in demand-

ing working environments. The range is rounded off by practical power strips for a wide variety of applications in both domestic and commercial settings. All items listed in the catalogue are available exclusively through specialist retailers. This means customers benefit not only from certified quality, but also from expert

advice and reliable local service. The specialist retailer's catalogue helps you to implement projects efficiently, safely and with a view to the future.



Kopp trade program
as PDF at
www.kopp.eu



Greater safety on the building site

Portable personal protection devices – from PRCD-2p to PRCD-S pro

Portable personal protection devices (PRCDs) serve as an additional protective measure when using electrical equipment at sockets with unknown or unverified protective measures. They combine residual current protection with monitoring functions for the protective conductor (PE) and are predominantly used as plug-in devices or in conjunction with extension leads and cable reels.

PRCDs are an important tool for reducing the risk of electrical accidents at temporary workplaces – such as on construction and assembly sites or at locations where the fire service and emergency services are operating. Technical developments have progressed from simple two-pole devices to self-monitoring, DC residual current-sensitive devices such as the PRCD-S pro.

Normative and regulatory framework

The design of portable personal protective equipment is governed by DIN VDE 0661 (EN IEC 61540), which specifies portable residual current devices with

out integrated overcurrent protection for domestic installations and similar applications. In the field of occupational health and safety, PRCDs are specified in various DGUV regulations, in particular DGUV Information 203–006 ‘Selection and operation of electrical installations and equipment on construction and assembly sites’.

The following minimum requirements for PRCDs are particularly relevant:

- Rated residual current (mA)
- All-pole disconnection, including the protective conductor PE
- Undervoltage trip with prevention of automatic re-engagement
- Prevention of engagement when the protective conductor is interrupted or live
- Disconnection if the protective conductor PE is interrupted in the supply circuit during operation
- No disconnection of the protective conductor PE in the event of an external voltage appearing on the protective conductor PE, for example due to drilling into an external cable

These requirements ensure that both faults in connected equipment and defects in the feed-in socket (connection point) are taken into account in the safety assessment.

Operating principle and typical fault patterns

The core component of a PRCD is the residual current sensor with a downstream tripping mechanism. If the residual current between the phase conductor(s) and the neutral conductor exceeds the rated residual current, a switching mechanism is activated, which disconnects the conductors on all poles.

Modern PRCDs supplement this basic function by monitoring the conductor configuration, monitoring the protective conductor resistance, providing undervoltage tripping and – in more advanced variants – detecting smooth DC fault currents as well as self-monitoring the internal electronics.





The fault scenarios addressed include, amongst others, interruptions in the protective conductor PE in the supply circuit, wiring faults such as L/PE reversal, fault currents resulting from insulation faults in the connected equipment, and external voltages on the protective conductor PE.

Standard device types: PRCD-2p, PRCD-3p and PRCD-K

PRCD-2p and PRCD-3p

PRCD-2p and PRCD-3p are classic designs of portable personal protection devices. The designations 2p and 3p respectively describe the number of conductors switched; PRCD-2p switches the phase conductor L and the neutral conductor N, whilst the protective conductor PE remains permanently connected, whereas PRCD-3p switches L, N and PE.

PRCD-3p thus enables complete all-pole disconnection and is more in line with today's requirements for comprehensive fault management. Nevertheless, these older variants only meet the requirements of DGUV Information 203–006 to

a limited extent and are increasingly being replaced by PRCD-S devices.



Further information
on PRCD-2p at
www.kopp.eu



Further information
on PRCD-3p at
www.kopp.eu

PRCD-K as a special case

The PRCD-K is similar in design to a PRCD-3p, but also features a voltage-dependent resistor (varistor) in the protective conductor path. This is due to potential differences between the installation's protective conductor (PE) and the conductive environment, which can lead to equipotential bonding currents even when there is no situation involving a risk of electric shock. The varistor behaves as a high-impedance component at low voltage differences, thereby limiting the equipotential bonding current to prevent unwanted tripping. Only when a specified voltage level is reached does the varistor become low-impedance, so that the fault current

becomes detectable and the PRCD-K operates within its protection range.



Further information
on PRCD-K at
www.kopp.eu

PRCD-S as an established standard

The PRCD-S is now the established standard for portable personal protection devices on construction and installation sites, as well as in similar operating environments. The device fully complies with the requirements of DGUV Information 203–006 and is available in various models and protection classes.

In terms of functionality, the PRCD-S provides residual current protection with rated residual currents of 10 mA or 30 mA, all-pole switching including the protective conductor (PE), undervoltage trip without automatic reclosing, and monitoring of the conductor configuration and the protective conductor (PE).



Further information
on PRCD-S at
www.kopp.eu



Restriction when switching on whilst wearing gloves

Particular attention must be paid to the method of protective conductor testing when switching on. The PRCD-S uses a test logic for this purpose in which coupling via the operator plays a role; therefore, the power button must not be pressed whilst wearing electrically insulating gloves.

For many construction site situations, this can be managed through organisational measures. However, in areas where the wearing of protective gloves is mandatory (e.g. fire services), this restriction presents a significant practical disadvantage.

PRCD-S pro

Advanced functions for use with sockets

The PRCD-S pro is a further development of the PRCD-S and is designed for applications requiring an enhanced level of protection at sockets within building installations. The device is intended for connection to sockets with a protective earth conductor (PE) and is not designed for direct use with power generators. This also applies to the PRCD-S.

Key additional functions include testing the quality of the protective conductor, with authorisation granted only if the protective conductor resistance is within the $k\Omega$ range; the detection of smooth DC fault currents from 6 mA upwards for compatible device types; safe operation whilst wearing protective gloves; self-monitoring of the residual current circuit and the switching contacts; and an LED-based status and fault display.

The PRCD-S pro is therefore particularly suitable for emergency services and demanding construction and installation tasks where protective gloves must be worn and, at the same time, a high level of protection against installation faults and residual currents is required.



Further information
on PRCD-S pro at
www.kopp.eu

Inspection and Maintenance

PRCDs are portable electrical equipment and are subject to periodic inspection in accordance with VDE 0702, in conjunction with the risk assessment and the requirements of DGUV Information 203–006. The scope of inspection and inspection intervals must be adapted to the operating conditions, environmental conditions and the usage profile.

Typical tests include a visual inspection, measurement of the protective conductor resistance, a functional test of the under-voltage trip, a test of the tripping behaviour in the event of a fault current, and, for PRCD-S models, a check of the specific self-monitoring and indication functions in accordance with the manufacturer's specifications.



Further information on
re-examinations for PRCD at
www.kopp.eu

Conclusion

The development of portable personal protective equipment is keeping pace with the increasing complexity of electrical installations and equipment, particularly with regard to non-linear loads and smooth DC fault currents. For users, this means that when selecting, using and testing PRCDs, they must systematically take into account both the normative requirements and the specific operating conditions – such as the requirement to wear gloves, environmental conditions and intended use.

