

www.dehn-international.com/partners



**Surge Protection
Lightning Protection
Safety Equipment
DEHN protects.®**

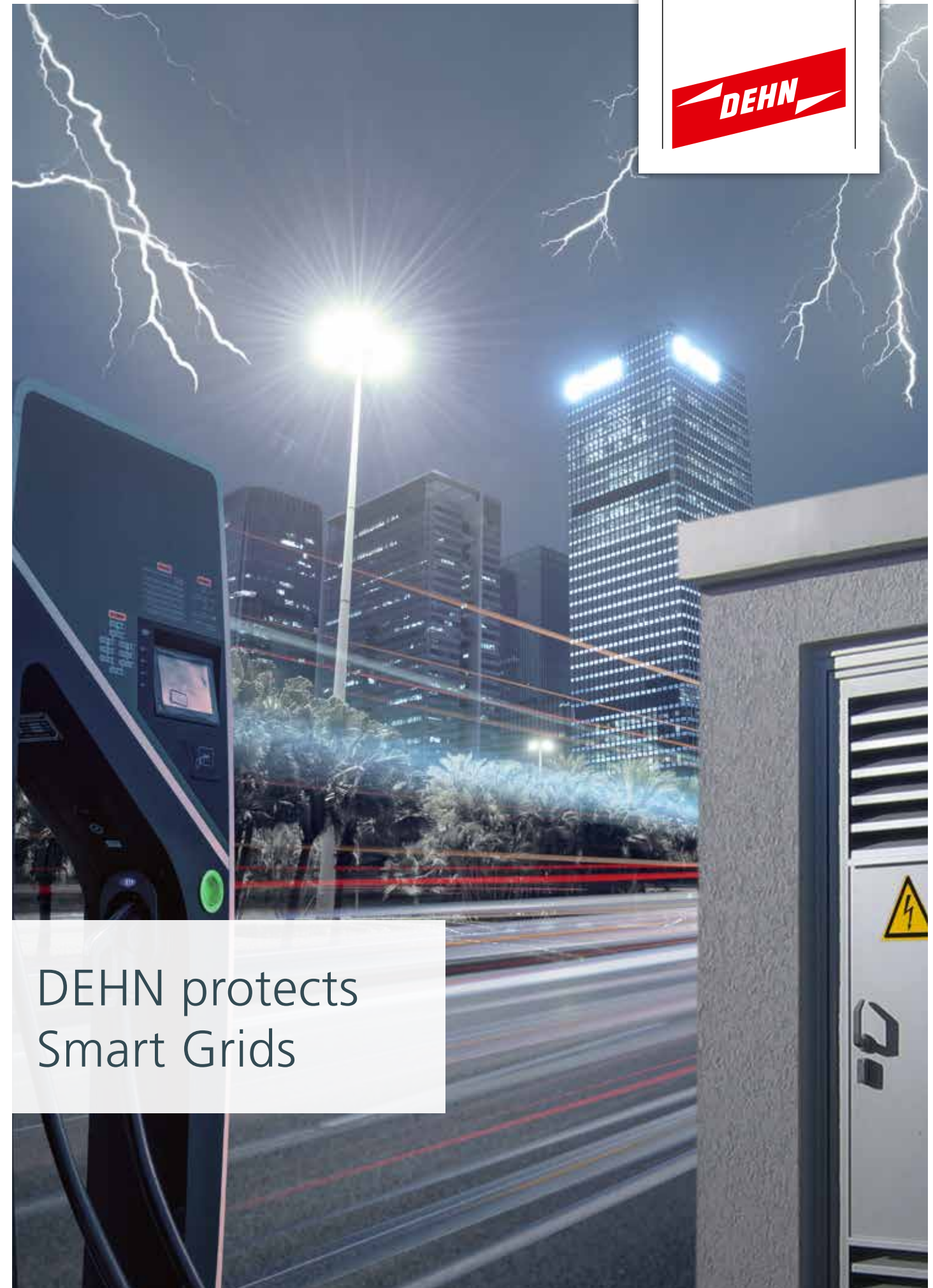
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DEHN protects
Smart Grids



Lightning and surge protection secures the supply – today and tomorrow

Focus on safe operation – solutions for intelligent power grids

The top priority for utilities companies, charging post manufacturers and fleet operators is safe and secure operation. Compliance with normative requirements is also an important aspect. DEHN products and solutions make it easy to achieve high system availability and the related security of supply – our satisfied customers confirm it.

Lightning and surge protection is elementary when it comes to grid and supply reliability. A power outage is a huge problem for both corporate and private customers. Power failure can lead to high costs, for example, due to production downtime, and to a reduced standard of living – which means loss of image for the network operators and municipalities.

Availability also takes first place for electromobility. Charging posts must be protected against failure and their ongoing operation secured. Breakdowns due to lightning, surges or electromagnetic interference cost the operator time, money and manpower.

So, make sure you opt for a comprehensive protection concept with DEHN solutions for surge protection, lightning protection and safety equipment – all from a single source. For high system availability and thus supply reliability.



- 1** Power station
- 2** Wind turbines
- 3** Photovoltaic systems
- 4** Intelligent transformer substation (distribution network)
- 5** Transmission networks (high-voltage)
- 6** Substations
- 7** Electric battery storage systems
- 8** Charging infrastructure for electric vehicles
- 9** LED street lighting and smart poles
- 10** Intelligent measuring equipment

Power grid in transition

Power generation in the grid of the future will be primarily decentralised. Distribution networks are already taking green power from PV systems and wind turbines and transporting it in all directions. The resulting multi-directional flow of energy brings new challenges for the network operator. The continued safe operation of the networks requires their intelligent expansion and control.

The development of an intelligent network involves an increasing number of sensitive electronic components. The risk of power supply outages due to system failure resulting from lightning, surges and electromagnetic interference is growing. Modern protection concepts can protect the central facilities and systems in the power sector. This brochure will provide you with more information.

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DEHN protects substations



Substations are a central part of the power supply network. Technical safety is the top priority. The equipment must be state of the art. The current normative requirements according to IEC 62305 and IEC 61936-1 apply for lightning and surge protection ¹⁾.

A risk analysis of the potential local risk is important when planning the lightning and surge protection concept. The potential danger must be examined, analysed and evaluated for each individual case. Take advantage of the DEHNconcept planning service and have a comprehensive protection concept planned for you.

This consists of lightning protection, surge protection, earthing and equipotential bonding. A further benefit for you is less maintenance and repair work, which means lower costs. Your systems are stable and security of supply increases.

¹⁾ IEC 62305: Protection against lightning
IEC 61936-1: Power installations exceeding 1 kV a.c. - Part 1: Common rules

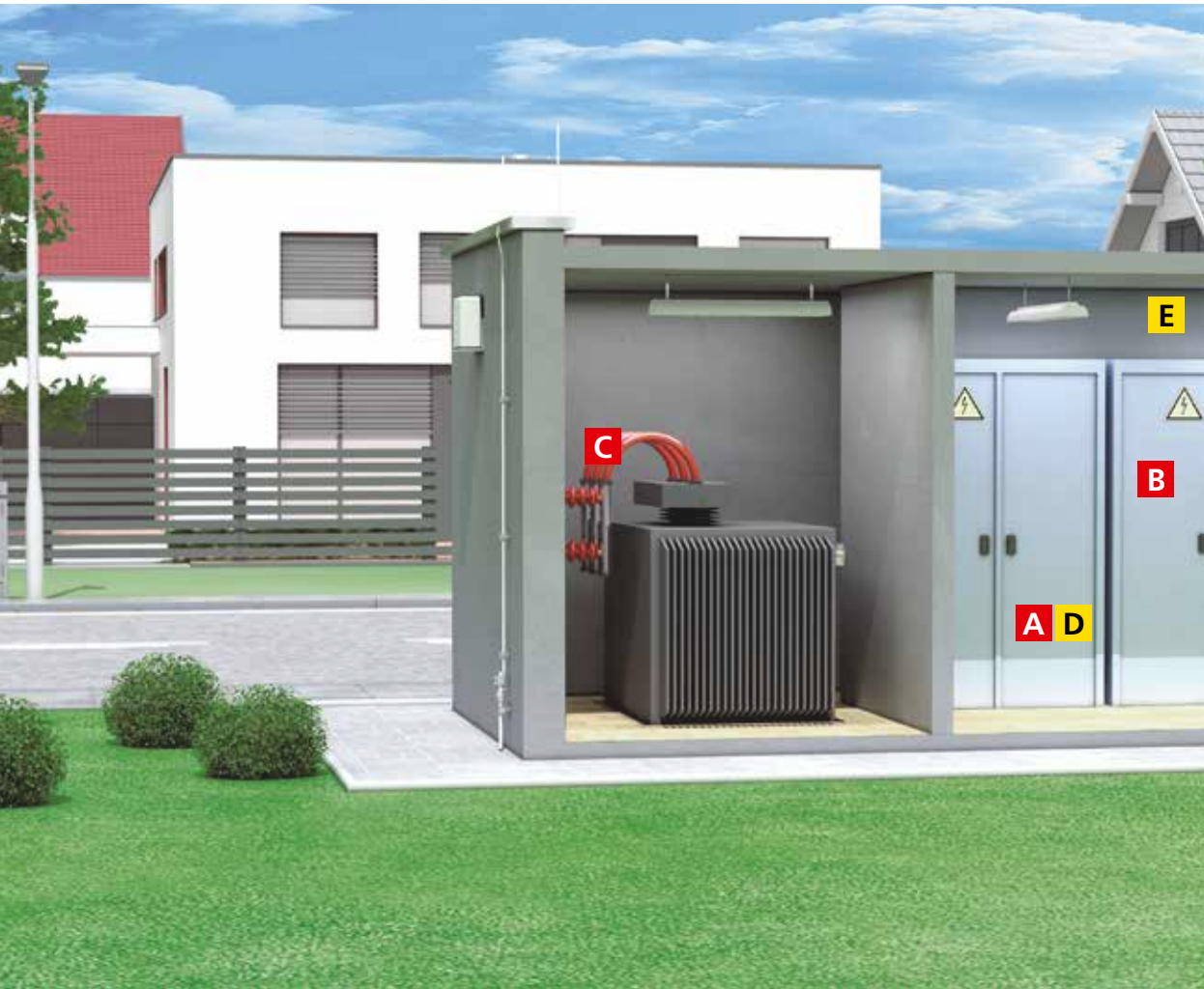
Further **information** is available on the Internet:

▶ ▶ ▶ Short link: de.hn/spg18is

Application		Type	Part No.	
Power supply systems				
A		Protection of the low-voltage main distribution board in the operation building	DEHNventil® Modular spark-gap-based type 1 and type 2 combined arrester for three-phase TT and TN-S systems with 230 / 400 V	951 315
B		Protection of the LED outdoor lighting	DEHNCord L Type 2 arrester. Universal use thanks to IP 65 degree of protection	900 448
C		Protection of DC control lines	DEHNGuard® SE DC Type 2 arrester for DC applications up to 60 V DC	972 115
Information technology systems				
D		Protection of data and communication lines	BLITZDUCTOR® XT Space-saving TYPE 1 combined arrester module with LifeCheck® for protecting two pairs Base part BXT BAS	920 347 920 300
		Arrester monitoring	DEHNrecord Alert MODBUS Modbus TCP / RTU communication module for integrating SPDs into a monitoring system DEHNrecord Alert MCM Monitoring of up to 10 BXT. Transmission of the status, bus address and part numbers to the DEHNrecord Alert communication unit.	910 694 910 698
		Protection of telecommunication lines	DEHNrapid® LSA Lightning current arrester (TYPE 1) Earthing frame Surge arrester (TYPE 3) TYPE 1 combined arrester for LSA Plus systems for protecting 10 pairs	907 401 907 498 907 470
E		Protection of Ethernet applications Protection of IP outdoor cameras	DEHNpatch M DEHNpatch Outdoor Universal TYPE 2 arrester for Ethernet and structured cabling systems up to 250 MHz	929 121 929 221
		Protection of coaxial connection systems	DEHNgate G TYPE 2 arrester with SMA connection technology	929 039

Application		Type	Part No.	
External lightning protection				
	Isolated external lightning protection for the operation building	HVI®light Conductor / DEHNcon-H Isolated lightning protection in the supporting tube with air-termination tip	819 255	
Earthing and equipotential bonding				
     	Operation building	Earth rods	StSt V4A Galvanised steel	620 902 625 151
		Connection brackets for earth rods	StSt V4A Galvanised steel	620 915 620 015
		Ring earth electrode (30 x 3.5 mm strip steel)	StSt V4A Galvanised steel	860 335 810 335
		Equipotential busbar industry design 12 terminals		472 237
		Copper cable	tinned 70 mm² tinned 95 mm² tinned 120 mm²	832 202 832 295 832 320
		Connecting clamps	copper	306 101
		Parallel connector	copper	321 047
Cross unit	StSt V4A	319 209		

DEHN protects intelligent transformer substations



Transformer substations are an important link at the interface between medium and low voltage. If they have core components such as remotely controlled switch disconnectors and circuit breakers, regulated distribution transformers, telecontrols, communication and control devices, they are known as intelligent transformer substations.

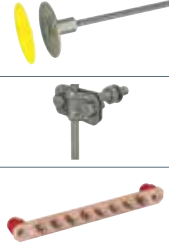
DEHN provides the systems and components required to protect the sensitive electronics in intelligent transformer substations from being damaged by lightning and surges.

You safeguard constant availability, avoid economic losses and save on personnel. Earthing and equipotential bonding also ensure personal safety.

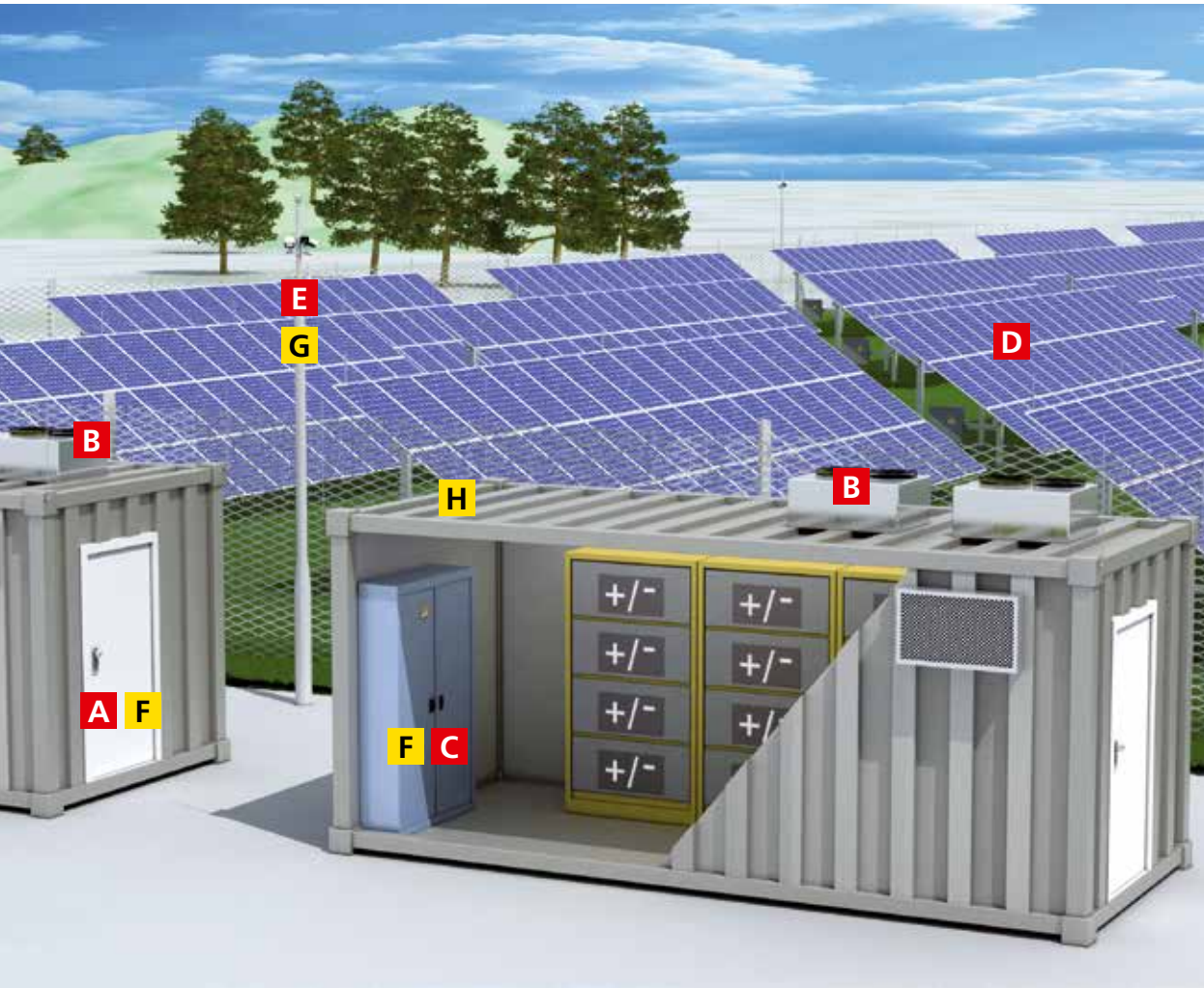
Further **information** is available on the Internet:

▶ ▶ ▶ Short link: de.hn/spg18is

Application		Type	Part No.	
Power supply systems				
A		Protection of the low-voltage main distribution board	DEHNvenCI Type 1 + type 2 combined arrester with integrated backup fuse alternative: DEHNguard® M ACI Type 2 arrester with integrated switch / spark gap combination; can be used without backup fuse alternative: VA NH00 Type 2 arrester with integrated backup fuse in NH 00 design	961 205 952 341 900 262
		Protection of the monitoring and telecontrol system	DEHNrail Type 3 arrester. Additional protection of the power supply of terminal devices	953 405
		Protection of the transformers on the medium-voltage side	DEHNmid Medium voltage arrester Disconnecter Disconnecter for DEHNmid arresters	990 010 994 003
Information technology systems				
D		Protection of data and communication lines	BLITZDUCTOR® XT Space-saving TYPE 1 combined arrester module with LifeCheck® for protecting two pairs BLITZDUCTOR® SP Space-saving TYPE 2 surge arrester module for protecting two pairs Base part BXT BAS	920 375 926 375 920 300
		Protection of Ethernet applications	DEHNpatch Universal TYPE 2 arrester for Ethernet and structured cabling systems up to 250 MHz	929 121
E		Protection of coaxial connection systems	DEHNgate G TYPE 2 arrester with SMA connection technology	929 039

Earthing and equipotential bonding			
	Earth-termination system (control earth electrodes)	Strip steel (30 x 3.5 mm) StSt V4A Galvanised steel	860 325 852 335
		Cross units StSt V4A Galvanised steel	319 209 319 201
		Earth rod StSt V4A Galvanised steel	620 902 625 151
		Connection clamp for earth rods StSt V4A Galvanised steel	610 020 610 010
		Anti-corrosion tape	556 130
		Fixed earthing point StSt V4A	478 011
	For integration into the substation building	Connection clamp For fixed earthing points	478 129
		Equipotential busbar industry design 12 terminals	472 237

DEHN protects electric battery storage systems



Lightning discharge jeopardises the sensitive electronics required for the process of charging and discharging. The surges which occur often exceed the dielectric strength of the electronic components installed many times over. Network-related voltage peaks can also damage electronic parts.

A comprehensive protection concept ensures that the battery storage system can do what it is there to do, e.g. peak shaving, energy management and maintenance of the voltage quality.

DEHN lightning and surge protection considerably reduces the risk of damage. You need less personnel for maintenance and repair work and get a better operating result.

Further **information** is available on the Internet:

▶ ▶ ▶ Short link: de.hn/ew19bs

Application		Type	Part No.
Power supply systems			
A		Protection of the AC infeed of the low-voltage main distribution board	DEHNventil® Protection of the AC infeed of the low-voltage main distribution board 951 315
B		Protection of air-conditioning systems	DEHNgard® M Type 2 arrester 952 315
C		Protection of DC supply lines	DEHNgard® ME DC Combined arrester type 1 and 2 for direct current applications up to 950 V with powerful DC switching device DCD 972 146
			alternative: DEHNgard® SE DC Type 2 arrester for direct current applications up to 900 V with powerful DC switching device DCD 972 145
D		Protection of PV power supply systems	DEHNcombo Type 1 combined arrester for photovoltaic systems up to 1500 V DC 900 067
E		Protection of the LED outdoor lighting	DEHNCord L Type 2 arrester. Universal use thanks to IP 65 degree of protection. 900 448
Information technology systems			
F		Protection of data and communication lines	BLITZDUCTOR® XT Space-saving TYPE 1 combined arrester module with LifeCheck® for protecting one pair 920 244
			BLITZDUCTOR® SP Space-saving TYPE 2 surge arrester module for protecting one pair 926 244
			Base part BXT BAS 920 300
		Protection of Ethernet applications	DEHNpatch Universal TYPE 2 arrester for Ethernet and structured cabling systems up to 250 MHz 929 121
G		Protection of IP outdoor cameras	DEHNpatch Outdoor TYPE 2 arrester for outdoor use 929 221
H		Protection of coaxial connection systems	DEHNgate G TYPE 2 arrester with SMA connection technology 929 039

Application		Type	Part No.
External lightning protection			
	Isolated external lightning protection for the operation building	HVI®light Conductor / DEHNcon-H Isolated lightning protection in the supporting tube with air-termination tip	819 255
Earthing and equipotential bonding			
	Earth-termination system	Strip steel (30 x 3.5 m) StSt V4A Galvanised steel	860 325 852 335
		Cross units StSt V4A Galvanised steel	319 209 319 201
		Equipotential busbars industry design 12 terminals	472 227

DEHN protects the charging infrastructure and electric vehicles



A storm is never planned and, what few electric vehicles owners and charging station operators know, charging posts require lightning and surge protection to prevent damage both to the posts themselves and the vehicle when charging during a storm.

Protect your investment and yourself against the expense of damaged charging controllers, batteries and electronics in the charging facilities (control and communication) by implementing high quality, tested DEHN protective solutions. This gives the owners of electric vehicles a safe and reliable way of charging their vehicles and polishes up the image of charging post operators in terms of increased

availability and vehicle protection. With DEHN lightning and surge protection, you also fulfil the current standards ¹⁾, e.g. IEC 60364-7-722 and IEC 60364-4-44.

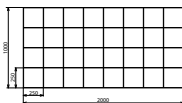
- DEHN lightning and surge protection
- protects the charging infrastructure
 - protects the electric vehicle during charging
 - increases the availability of charging posts
 - fulfils the normative requirements

¹⁾ IEC 60364-7-722: Low-voltage electrical installations – Part 7-722: Requirements for special installations or locations – Supplies for electric vehicles
IEC 60364-4-44: Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances

Further **information** is available on the Internet:

▶ ▶ ▶ Short link: de.hn/ew19emob

Application		Type	Part No.	
Power supply systems				
A		Protection of the low-voltage main distribution board	DEHNvenCI Spark-gap-based type 1 + type 2 combined arrester alternative: DEHNguard® M ACI Type 2 arrester with integrated switch / spark gap combination; can be used without backup fuse alternative: VA NH00 Type 2 arrester with integrated backup fuse in NH 00 design	961 205 952 341 900 262
	   	Protection of AC-fed charging posts	DEHNshield® Type 1 + type 2 spark-gap-based combined arrester for three-phase TT and TN-S systems for 230 / 400 V, DIN rail mounted alternative: DEHNshield® ZP Type 1 + type 2 combined arrester for three-phase TT and TN-S systems; snapped on 40 mm busbar systems DEHNguard® ACI Type 2 arrester with integrated switch / spark gap combination; can be used without backup fuse alternative: DEHNguard® Type 2 arrester	941 315 900 397 952 341 952 315
B	 	Protection of DC-fed charging posts	DEHNguard® ME DC Combined arrester type 1 and 2 for direct current applications up to 950 V with powerful DC switching device DCD alternative: DEHNguard® SE DC Type 2 arrester for direct current applications up to 900 V with powerful DC switching device DCD	972 146 972 145
	Information technology systems			
C		Protection of data and communication lines	BLITZDUCTOR® XT Space-saving TYPE 1 combined arrester module with LifeCheck® for protecting one pair BLITZDUCTOR® SP Space-saving TYPE 2 surge arrester module for protecting one pair Base part BXT BAS	920 244 926 244 920 300
		Protection of Ethernet applications	DEHNpatch Universal TYPE 2 arrester for Ethernet and structured cabling systems up to 250 MHz	929 121

Application	Type	Part No.
Earthing and equipotential bonding		
    	Protection against step voltage	Mesh mat StSt V4A 618 214
	Connecting clamp For mesh mats	540 270
	Earth rod StSt V4A Galvanised steel	620 902 625 151
	Connection clamp for earth rods StSt V4A Galvanised steel	610 020 610 010
	Anti-corrosion tape	556 130

DEHN protects LED street lighting



Indirect lightning discharge produces surges which far exceed the surge immunity of LED luminaires. This can lead to partial or complete failure of the LED module and defective LED drivers. Surges in the grid may result in the premature ageing of LED modules.

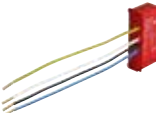
This can be combatted with high-performance surge protection. DEHN surge arresters prevent the failure of lighting which means more safety and happier residents. At the same time, surge protection can increase the service life of LED lights – for the sustained protection of your investment.

Some good reasons for DEHN lightning and surge protection

- LED lights are sensitive electric consumers with a lower surge immunity than conventional luminaires
- A protection concept avoids maintenance jobs due to surge damage
- DEHN arresters ensure the longevity and availability of LED technology
- DEHN arresters are high-quality products made in Germany which offer reliable protection against surges

Further **information** is available on the Internet:

▶ ▶ ▶ Short link: de.hn/led19ew

Application		Type	Part No.	
Power supply systems				
A		Installation in the LED head	DEHNCord L 2P (for class II LEDs) DEHNCord L 2P (for class I LEDs) Compact type 2 arrester. With disconnection of the load circuit in the event of a fault	999 906 900 446
		Mast fuse box with integrated surge protection	Mast fuse box EK480 with integrated DEHNCord	900 443
		Installation in the mast fuse box	DEHNCord L 3P (including protection of the control phase) DEHNCord L 2P Compact type 2 arrester. With disconnection of the load circuit in the event of a fault. IP 20 degree of protection	900 445 900 446
			DEHNCord L 2P (with long connecting cables) Compact type 2 arrester. With disconnection of the load circuit in the event of a fault. IP 20 degree of protection	999 937
			DEHNCord L 3P (including protection of the control phase) DEHNCord L 2P Universal retrofit version with IP 65 degree of protection	900 447 900 448
C		Installation in the cable distribution cabinet	DEHNshield® ZP Type 1 + type 2 spark-gap-based combined arrester, for three-phase TT and TN-S systems. Snapped on 40 mm busbar systems	900 397
			DEHNshield® (for TT and TN-S systems) Type 1 + type 2 spark-gap-based combined arrester, for three-phase TT and TN-S systems. DIN rail mounting	941 315
			DEHNguard® M Type 2 arrester	952 315
			STAK 25 Accessory: Pin-shaped terminal for EMC-optimised series connection (for DEHNshield® and DEHNguard®)	952 589
	Information and communication systems			
		Protection of DALI lines	BT 24 TYPE 2 arrester with KNX bus terminal design	925 001

Application		Type	Part No.
Earthing and equipotential bonding			
	Earthing of cable distribution cabinets	Earth rod StSt V4A Galvanised steel	620 902 625 151
		Connection clamp for earth rods StSt V4A	540 121

From the safe generation....



Their height makes wind turbines particularly susceptible to damage from lightning. A consistent lightning protection system comprising external and internal lightning protection, earthing and equipotential bonding is an absolute must. This is the only way to prevent downtime and reduce the resulting costs, such as repair costs.

Decide in favour of safety. Put your trust in DEHN when it comes to lightning and surge protection and profit from our long experience. Take advantage of DEHN services, such as

- risk analysis
- customised protection concepts and product solutions
- system tests in the DEHN Test Centre

Further **information** is available on the Internet:

▶ ▶ ▶ Short link: de.hn/wind-turbines



Surges as a result of storms are one of the most frequent causes of damage in PV systems. They frequently destroy system parts such as modules, inverters and monitoring systems.

The financial impact is substantial. The replacement of a faulty inverter, new installation and loss of revenue resulting from downtime all mean that the break-even point and thus the profit zone is reached much later.

Decide in favour of a professional and comprehensive lightning protection system consisting of external and internal lightning protection. In doing so, you increase system availability and secure your revenue in the long term.

Further **information** is available on the Internet:

▶ ▶ ▶ Short link: de.hn/pvps

...to the safe utilisation of power



Sensitive, interconnected technological equipment forms the basis of the modern working world and smart buildings. Building automation, KNX systems, LED lighting, sensitive safety, data and communications technology are just a few examples.

Lightning and surges can have grave consequences. They put people at risk and can damage buildings and equipment, paralysing them and entire work processes. These are unnecessary outages and dangers which can easily be prevented by installing a lightning protection system. This consists of external lightning protection, surge protection, earthing and equipotential bonding.

Further **information** is available on the Internet:

▶ ▶ ▶ Short link: de.hn/office-buildings



Digital devices increasingly define our modern lifestyle: intelligent home technology, burglar alarms, smart TV, electromobility, to name but a few. Smart technology in the home is standard for many people nowadays. At the same time, it means that the devices are more sensitive and susceptible to disturbance.

The more we use the opportunities presented by digitalisation, the more important it becomes to ensure that residential buildings have the best possible protection. This safeguards the availability of smart building and home office technology, keeping both the heating and the WLAN router up and running.

Whether a new building, modernisation or retrofit: modern residential buildings require comprehensive protection!

Further **information** is available on the Internet:

▶ ▶ ▶ Short link: e.hn/pvrb

Safe service and maintenance

DEHN safety equipment



Safe right down the line...

Work on electrical systems is becoming more and more demanding. Make sure you use safe and reliable equipment.

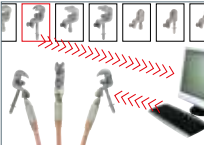
DEHN offers tested products and reliable services which protect you against injury caused by arc faults and secure the availability of your systems. This gives you, as the employer, legal certainty.

... and on the job!

- Insulated sticks
- Voltage detectors
- Earthing and short-circuiting devices
- Covering material and blankets
- Arc fault tested personal protective equipment

Further **information** is available on the Internet:

▶ ▶ ▶ Short link: de.hn/safety-pd

Five safety rules		Part No.
1. Disconnect completely		
	Switching sticks Nominal voltage (U _N): 1...36 kV	763 611
	Fuse tongs Nominal voltage (U _N): 1...36 kV	765 042
2. Secure against re-connection		
	Insulating plug Insulating blade Lock-out system	785 640 785 642 785 637
3. Verify that the installation is dead		
	HSA high-voltage indicator Nominal voltage (U _N): 110...420 kV, for high-voltage overhead lines	767 539
	PHE 4 voltage detector Nominal voltage (U _N): 60...132 kV, for switchgear installations and overhead lines	783 280
	Voltage detector kit Nominal voltage (U _N): 20 kV, for switchgear installations and overhead lines; transport case included.	767 724
4. Carry out earthing and short-circuiting		
	Earthing and short-circuiting devices Easy and flexible configuration of individual earthing and short-circuiting devices for your installation at: short link: de.hn/safety-rules	
	Earthing sticks	761 016
5. Provide protection against adjacent live parts		
	Insulating protective shutters	763 211
	Insulating mats For insulating standing areas	785 458

Application		Part No.
Set of warning signs		
	Set of warning signs	700 050
Wireless inspection camera		
	Wireless inspection camera Protected against bridging up to 123 kV	766 390
Passive arc fault protection DEHNcare		
	Safety helmet for electricians	785 705
	Arc-fault-tested face shield Class 2	785 722
	Arc-fault-tested protective gloves with long gauntlet	785 810
	Protective coat	785 756
	Storage rucksack	785 443



More than just a product

Safe technology and comprehensive services all from a single source. As your partner, we are pleased to be at your side providing protection solutions and know how in all areas of the energy sector.

Intelligent planning

Simple and safe planning with the help of the DEHNsupport Toolbox software. With DEHNconcept you save even more time when planning integrated protection solutions for intelligent power networks.



Quick answers to technical questions

You have questions about the technology or applications? Get in touch with our technical support:
Phone: +49 9181 906 1774, E-mail: itss@dehn.de



Easily acquire knowledge

Get hold of practical information on all topics relating to lightning and surge protection and safety equipment at our DEHNacademy seminars and other training events.



Play it safe

DEHN Test Centre

Take advantage of our know-how to ensure that your solutions really are practicable. In the long-term, tested protection concepts promise greater operational reliability and availability of your systems. Have the lightning current carrying capability of your components tested using the most modern methods available. The DEHN Test Centre with a floor space of 800 m² offers engineering and testing services. The testing facility in our lightning current laboratory is able to generate lightning currents of up to 400 kA (10/350 µs) and is one of the most powerful of its kind in the world.

By the way, the DEHN Test Centre is accredited by the German Accreditation Body (DAKKS) according to IEC 17025.

Further **information** is available on the Internet:

▶ ▶ ▶ **Short link: de.hn/test-centre**



Should you have any questions about our engineering and testing services in the area of utilities, please contact

Team Test Centre
Phone: +49 9181 906 1812
Email: labor@dehn.de

Our testing services:

- System-level immunity test according to IEC 62305
- Testing of customer-specific connection units, e.g. charging posts, LED street lights, measuring and control systems in intelligent transformer substations
- Immunity test of components and systems according to IEC 61000-4-5
- Immunity test for telecommunication systems according to ITU-T and CCITT ¹⁾
- Lightning current tests for low-voltage switchgear installations
- Other test services are available on request

¹⁾ ITU-T: Telecommunication Standardization Sector, a unit of the International Telecommunication Union (ITU)

CCITT: The Comité Consultatif International Téléphonique et Télégraphique is a technical committee of the ITU



Fair partnership for the best solution

Our goal is to be a reliable, fair partner for our industrial, commercial and technical customers all over the world. To this end, we always focus on the best protection solution.

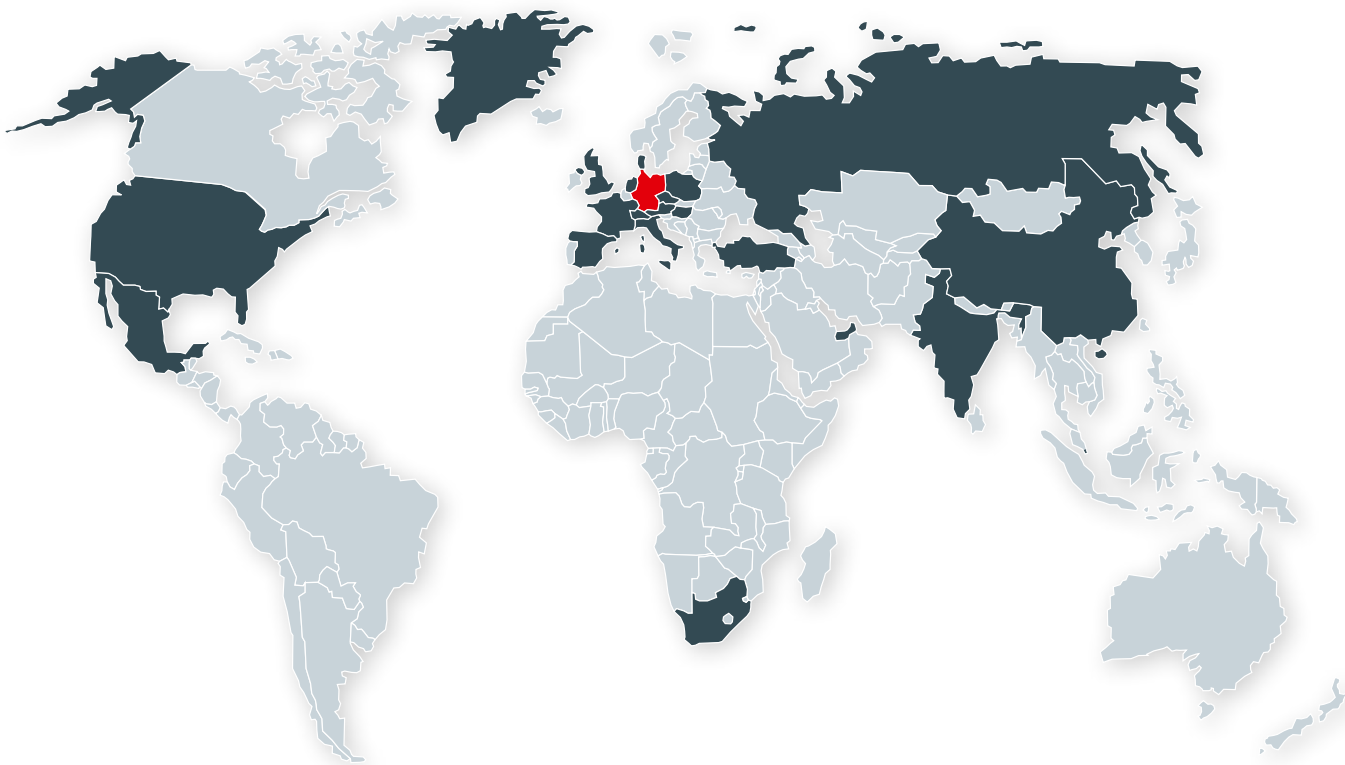
Proximity to and close contact with our customers is of great importance to us, be it on-site support by our experienced team, our telephone hotline or personal contact at trade fairs.

Worldwide presence with subsidiaries, representative offices and partners

Our sales teams in our global network in Germany, in our 20 subsidiaries and offices as well as more than 70 international partners ensure the competent and customer-oriented marketing of our products.

You can find your local contact person on the Internet at:

▶ ▶ ▶ Short link: de.hn/contact



Subsidiaries and representative offices		
Austria	DEHN AUSTRIA GmbH	www.dehn.at
China	DEHN Surge Protection (Shanghai) Co. Ltd.	www.dehn.cn
Czech Republic	DEHN s.r.o.	www.dehn.cz
Denmark	DESITEK A/S	www.desitek.dk
France	DEHN FRANCE S.à.r.l.	www.dehn.fr
Great Britain	DEHN (U.K.) LTD.	www.dehn.co.uk
Hungary	DEHN office Budapest	www.dehn.hu
India	DEHN India Pvt. Ltd.	www.dehn.in
Italy	DEHN ITALIA S.p.A.	www.dehn.it
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