

# HENSEL

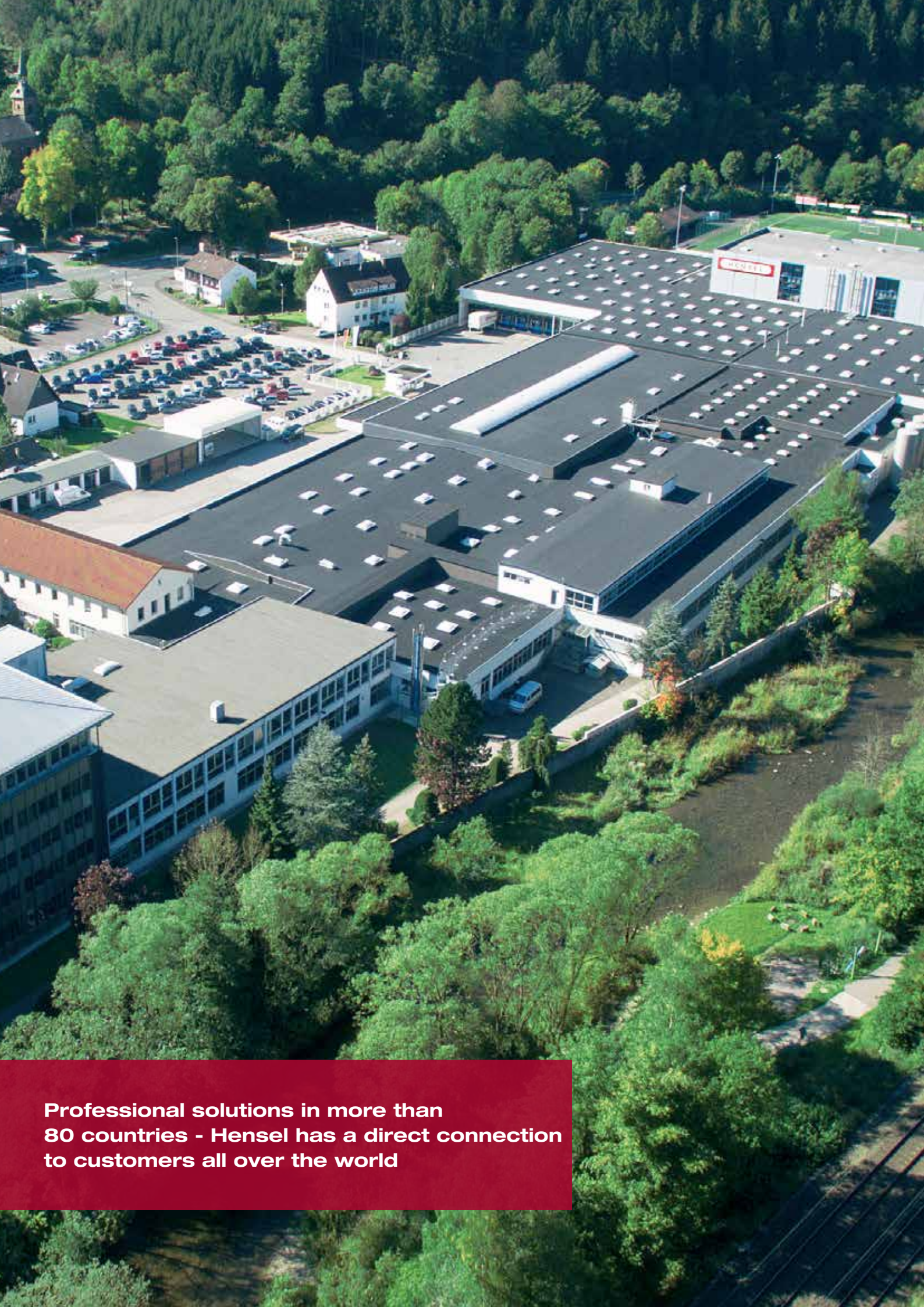
# COMPANY PROFILE



More information at [www.hensel.in](http://www.hensel.in)

 made in **GERMANY**  
since 1931

**HENSEL** | 1



**Professional solutions in more than  
80 countries - Hensel has a direct connection  
to customers all over the world**

## HENSEL - our passion is perfection

### Electrical power drives us forward.

In all areas of life. Hensel ensures that electrical energy gets to where it is needed. Reliably, safe und as quickly as possible. Now even in the third generation of families.

### Our specialities:

Professional solutions in the manufacture of electrical installation and power distribution systems. 850 Hensel employees are doing a superb job on this issue worldwide.

Our customers in more than 80 countries around the world are exceedingly sophisticated. And that is precisely why they rely on the strong Hensel brand. With eleven subsidiaries and 60 trading partners we have formed a closely knit network.

**For the direct line to customers,  
wherever he needs us.**



Philipp C. Hensel, Felix G. Hensel



## Highest quality and reliability

**Wherever dusty and humid environmental conditions place high demands on the electrical installation, products of highest quality conforming to standards are required for a reliable and safe distribution of electrical energy in the low voltage sector.**

High quality standards guarantee our customers' competitive advantage in the future.

All Hensel production facilities are certified and meet the requirements of

### DIN EN ISO 9001:2008

- Internal quality management
- Advanced test methods

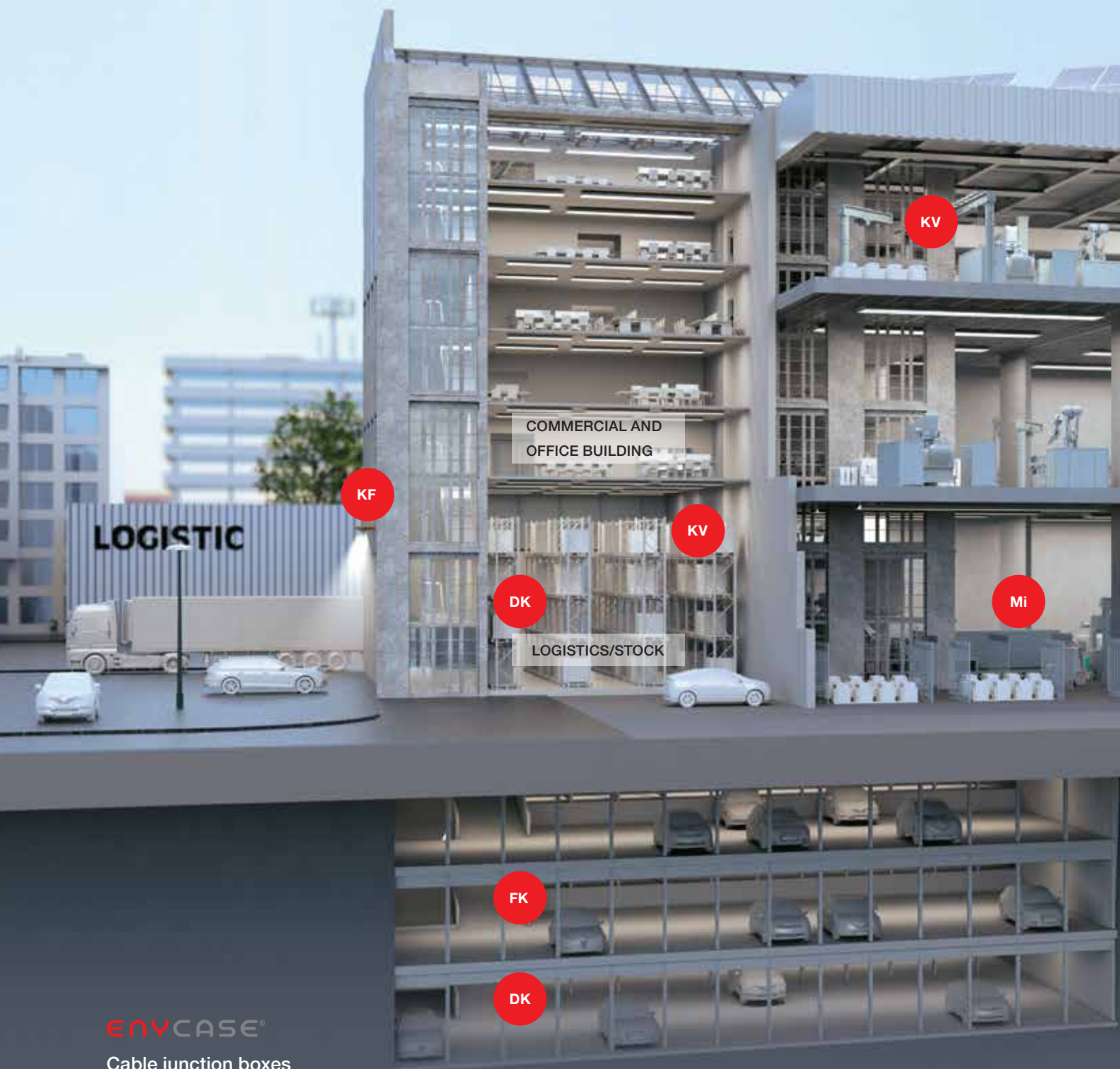
### Hensel stands for tested quality

- Durability of plastic materials
- Short-circuit withstand capability
- Tests on electromagnetic susceptibility (EMC tests)
- Fire behaviour
- Limits of temperature rise
- Functional tests
- IP degree of protection (dust and water protection)
- Impact resistance
- Temperature resistance
- Corrosion-proof
- Dimensions check via structured light projection



## Areas of application

- Agriculture and farming
- Automotive industries
- Cement factories
- Coldstorage facilities
- Gas stations and pipelines
- Hospitals and clinics
- Hotels and cinema complexes
- Industrial, commercial and company buildings
- Leisure and commercial centres (Malls)
- Marine environments
- Metal, wood and paper processors
- Mining
- Photovoltaic plants
- Power stations
- Residential and non-residential buildings
- Schools and universities
- Stadia and sport centres
- Telecommunications
- Traffic infrastructure buildings
- Tunnels and road construction
- Water and waste water treatment plants



## ENVCASE®

### Cable junction boxes



**DK** for indoor and protected outdoor installation, pages 6–11, 20–21



**KF** weatherproof, for outdoor installation and offshore applications, pages 12–13, 20–21



**WP** waterproof, for encapsulating, pages 14–15, 20–21



**FK** intrinsic fire resistance E30–E90 and insulation integrity PH120, pages 16–19, 20–21

## ENYBOARD

### Small-type distribution boards up to 63 A



**KV** for indoor installation and protected outdoor installation, pages 22–23, 26–27



**KV** weatherproof, for unprotected outdoor installation, pages 24–27



# Electrical installation and power distribution systems for industrial and commercial building sites

## ENYSTAR®

Distribution boards with doors  
up to 250 A



**FP** pages 28-31

## ENYMOD

Mi Power distribution boards up to 630 A



**Mi** pages 32-35

## ENYFLEX

Customized solutions and individual applications  
according to IEC 62208



**K / KG** pages 36-37

## ENYSUN

Product solutions for photovoltaic plants



**PV** pages 38-39



**Safe in industrial and commercial applications with demanding and tough environments**

## DK Cable junction boxes

Cable entry via integrated elastic membranes or metric knockouts

**Application: for indoor installation in industrial and commercial buildings**

- With elastic membranes, which can be removed for cable entry via cable glands
- Multi-level knockouts for cable glands in different sizes
- **Degree of protection: IP 66**
- Material: polypropylene or polycarbonate
- Burning behaviour:  
glow wire test in accordance with IEC 60695-2-11: 750 °C,  
flame-retardant, self-extinguishing
- Colour: grey, RAL 7035
- Resistance to impact: IK 07 (2 Joule)





## DK Cable junction boxes

**Solutions for many requirements in industrial and commercial sites**

No matter which installation task is required, no matter what is demanded - Hensel has the solution.

Take advantage of the extensive portfolio of well-engineered and practical product solutions within the cable junction box range.



With / without screw-type terminals  
for copper conductors  
0.75 mm<sup>2</sup> up to 240 mm<sup>2</sup>



With terminals in plug-in  
technology  
0.75 mm<sup>2</sup> up to 4 mm<sup>2</sup>

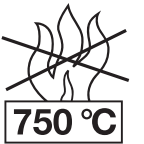


With terminals for aluminum- and  
copper conductors  
1.5 mm<sup>2</sup> up to 240 mm<sup>2</sup>



For safety lighting circuits  
0.75 mm<sup>2</sup> up to 4 mm<sup>2</sup>





With main line branch terminals  
for copper conductors  
6 mm<sup>2</sup> up to 35 mm<sup>2</sup>



With terminal blocks for aluminum  
and copper conductors  
0.75 mm<sup>2</sup> up to 4 mm<sup>2</sup>



For cable trunking and conduit  
installation  
1.5 mm<sup>2</sup> up to 2,5 mm<sup>2</sup>



Cable entry via elastic membranes  
1.5 mm<sup>2</sup> up to 4 mm<sup>2</sup>



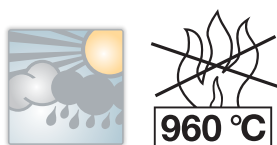
**Robust and weatherproof -  
for offshore applications and use  
outdoors in harshest conditions of  
industrial and commercial applications**

# KF Cable junction boxes

## Cable entry via metric knockouts

**Application: weatherproof, for unprotected outdoor installation in harsh environment and offshore applications**

- **Degree of protection**  
**IP 66 / IP 67 / IP 69**  
with cable glands as accessories,  
temporary submersion up to 1 meter
- Halogen-free: low toxicity, low fume development
- Weatherproof: UV-resistant,  
rainwater-proof, temperature-resistant,  
saltwater-proof
- Material: PC-GFS polycarbonate
- Comply with the regulatory restrictions  
for buildings with requirements  
regarding the structural fire protection  
DIN VDE 0100 Part 482  
(German Standard).
- Burning behaviour: Glow wire test in  
accordance with IEC 60695-2-11: **960 °C**,  
flame-retardant, self-extinguishing
- Colour: grey RAL 7035 or  
black RAL 9011
- Resistance to impact: IK 09 (10 Joule)



- VDE tested,  
DNV GL - Certificate No.: TAE00000EE,  
Russian Maritime Register of Shipping  
documentation-No.: 250-A-1180-108795





**Waterproof - for encapsulation**

**for outdoor installation and use in harsh environmental conditions with risk of condensation and ingress of water as well as for ground installation without traffic loads**

# WP Cable junction boxes

## Cable entry via metric knockouts

### Application: waterproof, for encapsulation

- **Degree of protection IP 68**  
submersion up to 20 meter, 168 hours
- Sealing compound fitting the product:  
the quantity is always matched to the product - never too much or too little material during processing.
- Inspection and subsequent installation:  
The lid can be removed for inspection purposes. For subsequent installations or inspections, the sealing compound can be easily removed.
- Material: PC-GFS polycarbonate
- Burning behaviour: Glow wire test in accordance with IEC 60695-2-11: **960 °C**, flame-retardant, self-extinguishing
- Colour: grey RAL 7035 or black RAL 9011
- Resistance to impact: IK 09 (10 Joule)





**Approved for insulation integrity PH120  
and intrinsic fire resistance E30/E60/E90  
in the event of fire**

# FK Cable junction boxes

Cable entry via metric knockouts and grommets

**Application: for buildings with public traffic, to guarantee the emergency power supply in the event of a fire**



- Intrinsic fire resistance in accordance with DIN 4102 Part 12 (German standard) in combination with function-retaining cables
- Insulation integrity PH120 in accordance with BS EN 50200 in combination with insulation retaining cables
- Screw anchors, high-temperature-resistant ceramic terminal E30 up to E90 and cable entries included as standard
- Multi-level knockouts for cable glands in different sizes
- Material: PC-GFS polycarbonate
- Glow wire test in accordance with IEC 60695-2-11: **960 °C**, flame-retardant, self-extinguishing
- Colour: orange, RAL 2003
- Cable junction box for large cable cross sections up to 50 mm<sup>2</sup>

**Material:**

**Insulating material / thermoplastic**

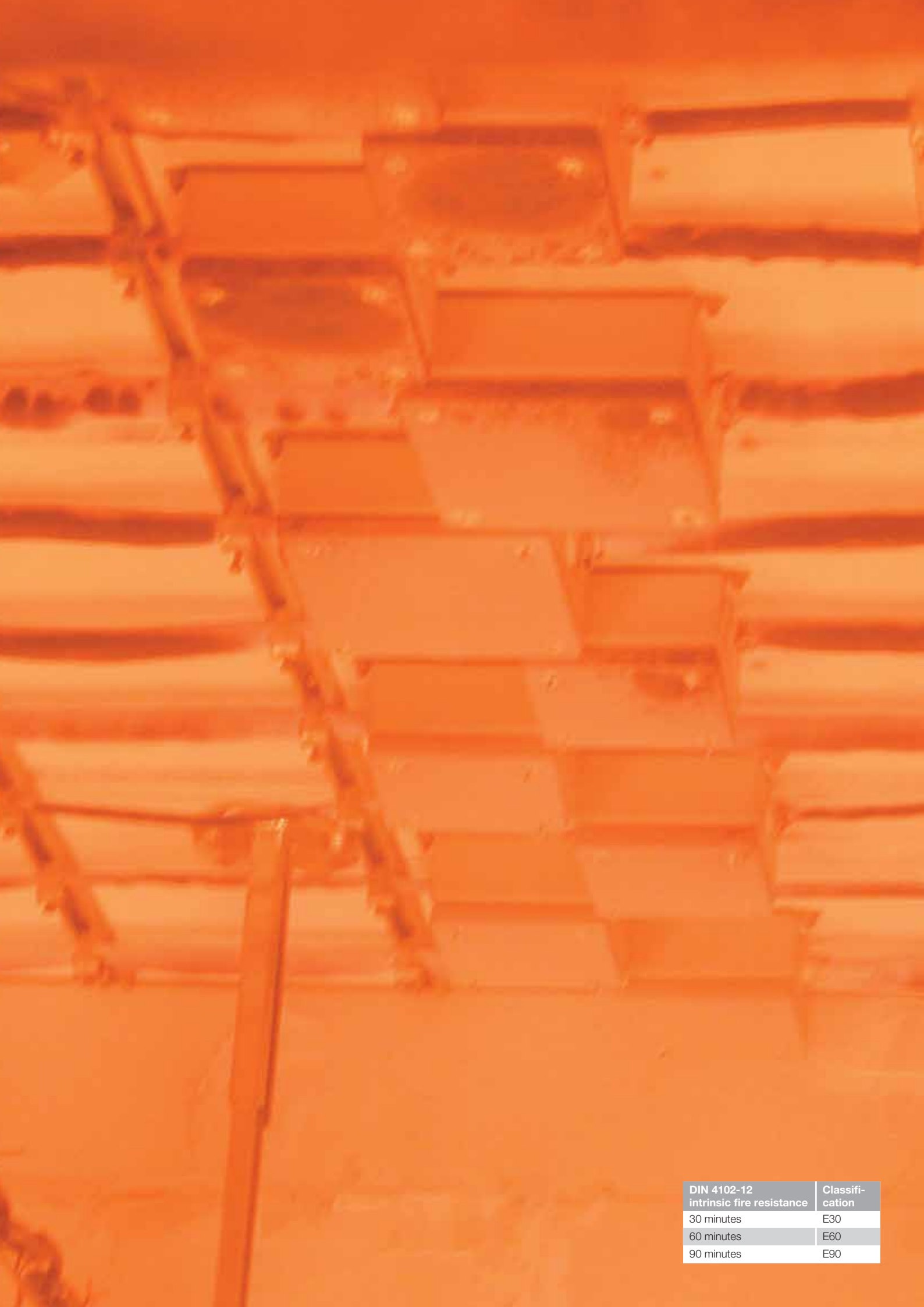
- Protection against electric shock: insulated
- Degree of protection: IP 66
- Resistance to impact: IK 09 (10 Joule)

**Material:**

**Sheet steel, powder-coated**

- Protection against electric shock: earthed
- Degree of protection: IP 66
- Resistance to impact: IK 10 (20 Joule)





DIN 4102-12 intrinsic fire resistance	Classifi- cation
30 minutes	E30
60 minutes	E60
90 minutes	E90



## Safety in the event of a fire

**Cable junction boxes from Hensel are tested for insulation integrity PH120 and intrinsic fire resistance in electrical cable systems E30/E60/E90**



Especially in buildings with public traffic as department stores, airports, hospitals, etc. and other public places security is top priority. The emergency power supply in accordance with regional building regulations is generally required. In the event of fire, the functional integrity of the emergency power supply must be guaranteed for a specific period of time. This ensures that electric devices, such as emergency lighting, lifts, smoke extractors, alarms, etc. remain operational for 30, 60 or 90 minutes and that people can leave the building and rescue services can work in case of fire. In addition to these requirements electrical installation systems must fulfill especially the electrical parameters with all components.

**Generally two, but different standards and testing procedures have been established.**

### **Insulation integrity PH120**

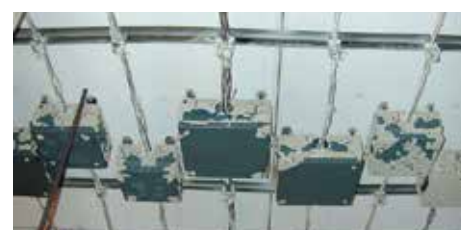
Testing for resistance to fire of unprotected cable lines (cables with cable junction boxes) for use in emergency circuits. This test method considers single tested products regardless of their usage.

### **Intrinsic fire resistance E30/E60/E90 places higher demands**

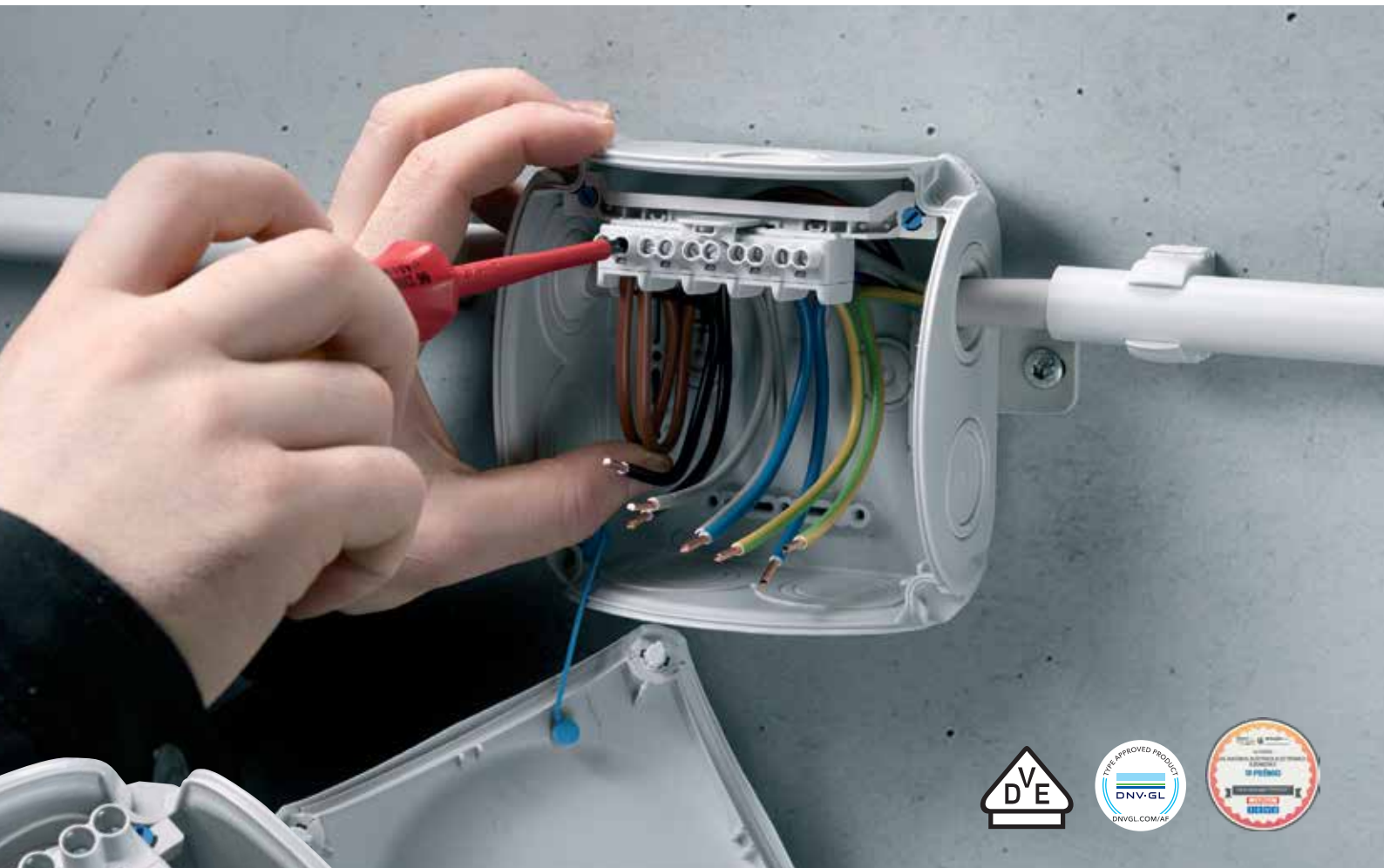
In contrast to insulation integrity, the testing of intrinsic fire resistance accesses not just a single test product, but the cable system as a whole including all components.



Cable junction boxes with connected cables after testing



# Cable junction boxes - system benefits



## Functional enclosure technology



- Optional: Professional identification of the circuits at bottom part of box



- Closes quickly by a quarter of turn, closed position is easily visible.
- When mounting, a retaining strap prevents the lid from falling or losing.
- Integrated sealing option.
- External brackets for fastening are always included. Oblong holes provide easy mounting and adjustment.

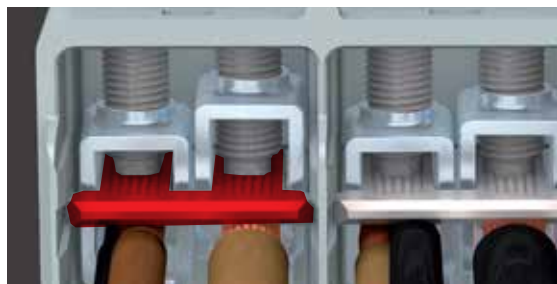
## Modern terminal technology innovative and flexible

- All terminals from 0.75 up to 25 mm<sup>2</sup> are VDE-certified and meet all requirements of the DIN EN 60998-2-1 standard:

*„Terminals shall be able to accommodate **two or more** conductors of the same or different nominal cross-section or combinations. Terminals shall be able to accommodate rigid and / or flexible unprepared conductors.“*



- All terminals are equipped with two clamping units per pole and allow the connection of various conductor cross sections and as well different conductor types with ease.
- Cable connections are protected against accidental loosening. Even during load changes during operation, connections are permanently guaranteed.



- A wire protection prevents conductor damage caused by direct action of the clamping screw and by that a potential conductor break, for flexible conductors without ferrule as well.

- High-positioned terminals provide more space for wiring.
- Terminal can be fixed in different terminal positions matching the wiring within the cable junction box.
- Up to enclosure size 4 ( $\leq 10 \text{ mm}^2$ ) two terminal bars can be mounted in one box, even different terminal sizes are possible.



## Various cable entry

### Optional: Push-in membrane or screwed cable gland in one go



- Cable entry via integrated elastic membranes in box walls for fast cable entry up to degree IP 66.
- Cable entry through the bottom of the box via integrated elastic membranes.
- Alternatively, a cable gland can be set after removing the elastic membrane.

**System-tested -  
always the most suitable  
cable entry to the respective  
application**



# Cable entry systems

to insert cables into housings and provide sealing and retention

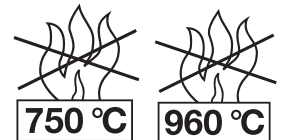
**Application: Most suitable fitting solutions for almost any indoor or outdoor installation in industrial and commercial buildings**



### System-tested

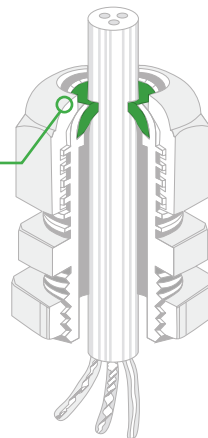
All cable entry systems are tested mounted to Hensel enclosures.

- From grommets up to pressure compensation elements - for each application the most suitable cable entry solution
- Degree of protection **IP 54 up to IP 66/IP 67/IP 69**
- **System-tested**
- Sealing range from 3 mm up to a diameter of 72 mm
- For metric knockouts M12 up to M63
- Cable entries for indoor and outdoor installation
- Cable glands with integrated cable retention
- Cable glands always with nut



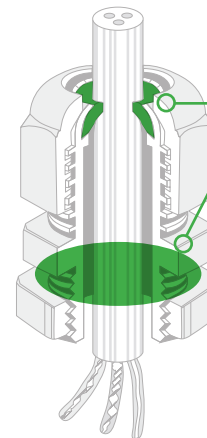
### Test according to standard

The test according to the standard checks the sealing of inserted cable with cable gland



### System-tested

Hensel double checks both the sealing of the cable with the gland as well as the sealing of the gland with the housing




**Close to working places.  
Safe in economical power supply in  
buildings and commercial and industrial  
applications**



# KV Small-type distribution boards up to 63 A

Cable entry via integrated elastic membranes or metric knockouts

**Application: for indoor installation in industrial and commercial buildings and / or protected outdoor installation**

- **Degree of protection IP 54-65**
- Protection class II, 
- For the installation of DIN rail equipment
- Operation of devices permitted by unskilled persons
- With FIXCONNECT® plug-in terminal technology for PE and N
- With up to four disconnectable N potentials in one bar that allows the installation of RCDs without additional efforts or accessories
- According to IEC 60 670-24
- Material: PS polystyrene
- Burning behaviour: glow wire test in accordance with IEC 60695-2-11: **750 °C**, flame-retardant, self-extinguishing
- Colour: grey RAL 7035
- Resistance to impact: IK 08 (5 Joule)



**Weatherproof**

**Safe in economical power supply  
in the unprotected outdoor installation  
and in harsh environments**




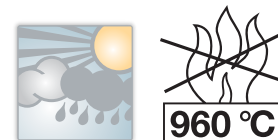


# KV Small-type distribution boards up to 63 A

Cable entry via integrated elastic membranes or metric knockouts

**Application: weatherproof, for the unprotected outdoor installation or in harsh environment outdoors**

- Degree of protection IP 65
- Protection class II, 
- For the installation of DIN rail equipment
- Operation of devices permitted by unskilled persons
- With FIXCONNECT® plug-in terminal technology for PE and N
- With up to four disconnectable N potentials in one bar that allows the installation of RCDs without additional efforts or accessories
- According to IEC 60 670-24
- Material: PC polycarbonate
- The material is examined for UV resistance by the institute for plastics and thereby suitable for the outdoor installation during UV effect
- Climatic influences and effects on the equipment are to be considered
- Burning behaviour: glow wire test in accordance with IEC 60695-2-11: **960 °C**, flame-retardant, self-extinguishing
- Colour: grey RAL 7035
- Resistance to impact: IK 08 (5 Joule)



- **One door** covers **all** installation rows
- 3-54 modules



- Compact user friendly solution, optically optimized by cable entry cover



- DIN rails with stopper for proper position of installation device
- Low side walls offer more space and convenient access to the wiring



- Integrated compartment for accessories - everything has its proper place

## Quick assembly thanks FIXCONNECT® plug-in technology

- FIXCONNECT® terminal technology for PE and N
- Optional: FIXCONNECT®-NT terminal for measurement without disconnecting N conductors
- N separable for various potentials via plug-in jumper
- Labelling option of terminals
- Lots of space for identification of electrical circuits



# KV Small-type distribution boards - System benefits

## Practical solutions for cable entry



- IP 54 up to IP 65 cable entry via integrated, elastic membranes
- Cable entry via metric knockouts with cable glands

## Securely locked thanks closing mechanism and sealing



- Lockable door via locking device and/or sealable
- Sealing of top and bottom part
- Door hinging interchangeable fast and easy from left to right

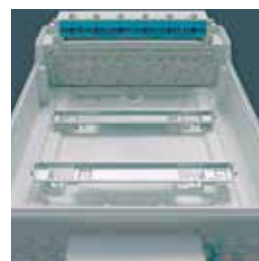
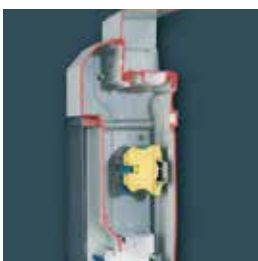
## Modern enclosure with lots of space for installation and wiring



- Cover for a perfect fitting to cable trunkings
- Multiple enclosure fixing - also on pillars or narrow components
- More space for wiring, convenient access to the wiring
- Variable installation depth through mounting DIN-rails in different levels
- Included blanking strips

### KV Extra

In the same enclosure standard-conforming installation devices (sizes according to DIN 43880) and non-operator-controlled devices can be installed at the same time.





**Distribution boards up to 250 A intended to be operated by ordinary persons (DBO).**

# ENYSTAR Distribution boards with doors up to 250 A

Combinable enclosure system for self-assembly of distribution boards, intended to be operated by ordinary persons according to IEC 61439-3

**Application: Suitable for indoor and/or outdoor installation protected against weather influences in industrial and commercial buildings**



- Pre-assembled enclosures with electrical functions
- Enclosures can be used as single boxes or combined to assemblies
- For free: Planning tool ENYGUIDE and guide for design and assembly for project engineering

- Degree of protection IP 66
- Dust-proof and protected against ingress of water with harmful effects
- Protection class II, □
- Insulation-enclosed
- Material: PC polycarbonate
- Climatic influences and effects on the equipment are to be considered
- UV resistant according to IEC 61439-1, Section 10.2.4: The material is examined for UV resistance
- Burning behaviour: glow wire test in accordance with IEC 60695-2-11: **960 °C**, flame-retardant, self-extinguishing
- Colour: grey RAL 7035
- Resistance to impact: IK 08 (5 Joule)



ENYSTAR distribution boards are intended to be operated by ordinary persons according to IEC 61439-3



# ENYSTAR Distribution boards up to 250 A



## Highly adaptable and well suited to harsh conditions in industrial applications



ENYSTAR distributors are highly adaptable in confined spaces and therefore well suited for industrial and commercial buildings:

- modular,
- with high degree of protection,
- expandable in all directions (vertical and horizontal).

- **Transparent doors:**  
All electrical functions at a glance. Faults can be instantly localized. The current course is always visible from the outside in the event of a fault or for retrofitting.
- **Flexible and expandable even in case of retrofitting additional circuits.**  
Depending on the number of additional required circuits matching enclosure sizes are available. They can be combined horizontally or vertically on each enclosure wall.
- **Electrical safety, dimensional stability in an impact or any other mechanical stress**  
ENYSTAR enclosures gradually buffer and spring immediately back to the original shape. A temporarily contact with live parts does not cause a shortcircuit. The protection against electric shock is maintained.

# System benefits



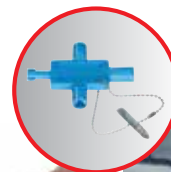
- Hand-operated locking facilities in areas, where electrotechnical unskilled persons operate equipment



- Locking option with key prevents unauthorized access



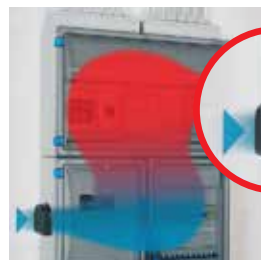
- Multikey for door locking systems: Standard locking system for tool-operation with slot screwdriver and triangle 8 mm, optional square lock 8 mm and double-bit.



- Connection Box for easy installation of plug devices, push buttons and switches.



- Safe even in the protected installation outdoors, e.g., with a canopy.

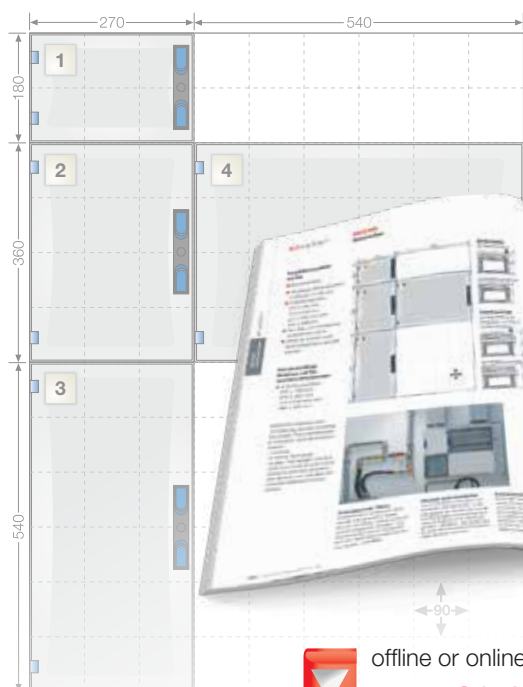


- Ventilation where there is a risk of condensation formation with a ventilation flange and combi climate glands



## Planning tools support design and project engineering

### ENYGUIDE



offline or online via Internet  
[www.enyguide.de](http://www.enyguide.de)



**Modular VTPN Distribution Board System  
up to 250 A according to IEC 61439-3  
for commercial and industrial buildings**



# ENYSTAR Modular VTPN Distribution Board System up to 250 A

Combinable enclosure system for self-assembly of distribution boards, intended to be operated by ordinary persons according to IEC 61439-3

**Application: Suitable for indoor and/or outdoor installation protected against weather influences in industrial and commercial buildings**



- Modular distribution board system
- Pre-assembled with vertical busbar system
- Free for use with devices of different manufacturers and brands

- Degree of protection IP 66
- Dust-proof and protected against ingress of water with harmful effects
- Protection class II, □
- Insulation-enclosed
- Material: PC polycarbonate
- Climatic influences and effects on the equipment are to be considered
- UV resistant according to IEC 61439-1, Section 10.2.4: The material is examined for UV resistance
- Burning behaviour: glow wire test in accordance with IEC 60695-2-11: **960 °C**, flame-retardant, self-extinguishing
- Colour: grey RAL 7035
- Resistance to impact: IK 08 (5 Joule)



ENYSTAR distribution boards are intended to be operated by ordinary persons according to IEC 61439-3





- Nothahn  
zzentrale  
allfertigung

**Erste Hilfe**  
Erstlerer sind:  
Name: \_\_\_\_\_  
Geburtsdatum: \_\_\_\_\_  
Geburtsort: \_\_\_\_\_  
Blutgruppe: \_\_\_\_\_  
Allergien: \_\_\_\_\_  
Erstlerer Unterschrift: \_\_\_\_\_  
Datum: \_\_\_\_\_  
Nach Benutzung  
wieder verschließen

**Erste Hilfe**

**Proven in commercial buildings in rough industrial atmospheres and difficult environments. Can even take extreme weather conditions in outdoor applications protected by a roof**

# Mi Power distribution boards up to 630 A

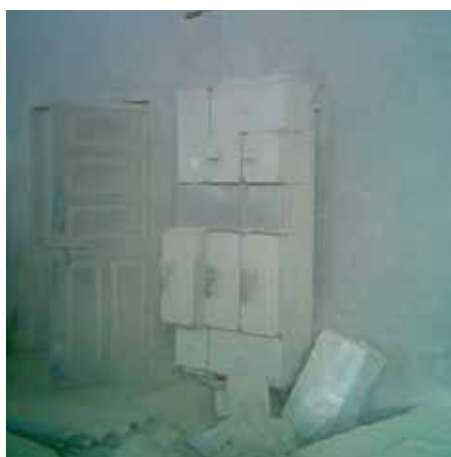
**Combinable enclosure system for self-assembly of power switchgear and controlgear assemblies (PSC) according to IEC 61439-2**

**Application: Suitable for indoor and/or outdoor installation protected against weather influences in industrial and commercial buildings**



- Pre-assembled enclosures with electrical functions
- Enclosures can be used as single boxes or combined to assemblies
- For free: Planning tool ENYGUIDE and guide for design and assembly for project engineering

- Degree of protection IP 65
- Single enclosures without any flanges and components mounted in the lid have degree of protection IP 66
- Dust-proof and protected against ingress of water with harmful effects
- Protection class II, □, total insulated
- Insulation-enclosed
- Material: PC polycarbonate
- Climatic influences and effects on the equipment are to be considered
- UV resistant according to IEC 61439-1, Section 10.2.4: The material is examined for UV resistance
- Burning behaviour: glow wire test in accordance with IEC 60695-2-11: **960 °C**, flame-retardant, self-extinguishing
- Colour: grey RAL 7035
- Resistance to impact: IK 08 (5 Joule)



# Mi Power distribution boards up to 630 A



## Highly adaptable and well suited to harsh conditions in industrial applications

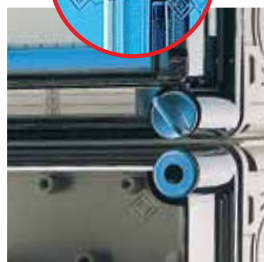


Mi distribution boards are highly adaptable in tight spaces in Industrial and commercial buildings.

- modular and combinable,
- with high degree of protection,
- expandable in all directions (vertical and horizontal).

- **Transparent lids:**  
All electrical functions at a glance. Errors can be instantly localized. The current course is always visible from the outside in the event of a fault or for retrofitting.
- **Flexible and expandable even in case of retrofitting additional circuits.**  
Depending on the number of additional required circuits matching enclosure sizes are available. They can be combined horizontally or vertically on each enclosure wall.
- **Electrical safety, dimensional stability in an impact or any other mechanical stress**  
Mi enclosures gradually buffer and spring immediately back to the original shape. A temporarily contact with live parts does not cause a shortcircuit. The protection against electric shock is maintained.

# System benefits



■ Covers with manual operation for unskilled persons or with tools for skilled persons



■ Lid lock prevents unauthorised opening of cover



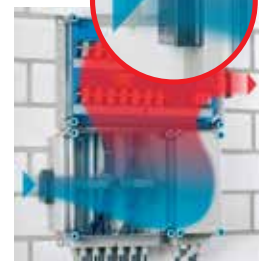
■ Hinged lid for easy operation of equipment



■ Enclosures can be used as single boxes or combined to assemblies

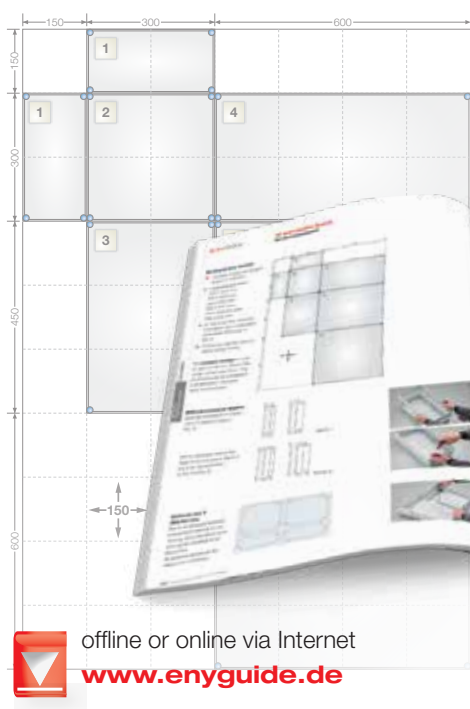


■ Safe even in the most extreme weather conditions outdoors, e.g., with a canopy



■ Ventilation facilities to reduce the formation of condensation

## Planning tools support design and project engineering



ENYGUIDE



offline or online via Internet  
[www.enyguide.de](http://www.enyguide.de)

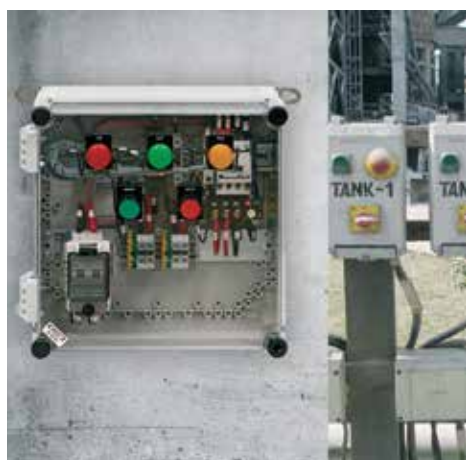


**Enclosures for customized solutions and individual applications**

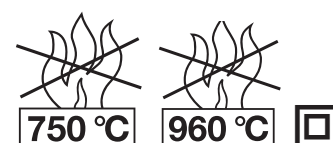
# Empty enclosures in accordance with IEC 62208

for customized solutions and individual applications

**Application: Suitable for indoor and/or outdoor installation protected against weather influences in industrial and commercial buildings**



- Degree of protection IP 55 / IP 66
- Dust-proof and protected against ingress of water with harmful effects
- Protection class II, □, total insulated
- Insulation-enclosed
- Material: PS polystyrene and PC polycarbonate
- Climatic influences and effects on the equipment are to be considered
- Burning behaviour: glow wire test in accordance with IEC 60695-2-11: **750 °C/960 °C**, flame-retardant, self-extinguishing
- Colour: grey RAL 7035
- Resistance to impact: IK 08 (5 Joule)



- For the installation of devices that must be operated externally, such as plug devices, push buttons and switches
- Installation of electrical equipment via DIN rails or mounting plates





**Product solutions for  
photovoltaic plants**



# Product solutions for photovoltaic plants

Generator junction boxes and solar inverter collectors in accordance with IEC 60364-7-712 for every type of low-voltage system: Grid, On Grid and Off Grid

**Application: Suitable for outdoor installation**



## PV generator junction boxes

- Completely assembled and ready for connection for quick and easy connection to PV strings and solar inverters
- With surge arrester, string overload or blocking diodes if necessary
- Accessories for outdoor applications (e.g. ventilation flange, canopy)



## PV Solar inverter collectors

- Pre-fabricated and tested solar inverter collectors
- Sets can be individually adapted on site.



## Disconnection switches

- For the connection of generation systems in accordance with application guide e.g. VDE-AR-N 4105 or local regulations

- Degree of protection IP 65
- Dust-proof and protected against ingress of water with harmful effects
- Protection class II, □, total insulated
- Insulation-enclosed
- Material: PC polycarbonate
- UV resistant
- Resistant to corrosion from rain, ice and snow
- Burning behaviour: glow wire test in accordance with IEC 60695-2-11: **960 °C**, flame-retardant, self-extinguishing
- Colour: grey RAL 7035
- Resistance to impact: IK 08 (5 Joule)



**Distribution board systems made from thermoplastics -  
Reliable, even under extreme conditions**



# Thermoplastic instead of metal - durable, highly resilient and stable in form

Distribution board systems from thermoplastic ensure maximum safety under extreme conditions

## Corrosion-resistance gives rust no chance

Indoors and outdoors, in extreme conditions and under heavy use fulfilling maximum performance and extreme durability



### Key advantages at a glance:

- High degree of mechanical load of IK 08 (5 Joule)
- Resistant to weather and ageing
- Corrosion-resistant
- UV-resistant
- High degree of form stability and high level of dimensional accuracy
- Durable for decades
- Combinable system



### Sheet steel enclosures and cabinets

are extremely vulnerable to the effects of weather and corrode in harsh environments but especially in the outdoor application after few years.

- The advantages of thermoplastic material in comparison of metal are obvious: they can easily be shaped and processed and equivalently replace many metal workpieces. Products made of thermoplastic are accurate, durable, corrosion and temperature resistant, light and inexpensive and extremely durable. In addition, extremely weather resistant.

- These properties make thermoplastic enclosures particularly suited in environments with rough, humid and wet conditions. They defy weather and environmental conditions at the site for many years and guarantee reliable and durable power distribution, wherever power is needed.

- The investment for an electrical installation will not play an important role in the long term compared to the possible high costs of production loss.





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06.2019