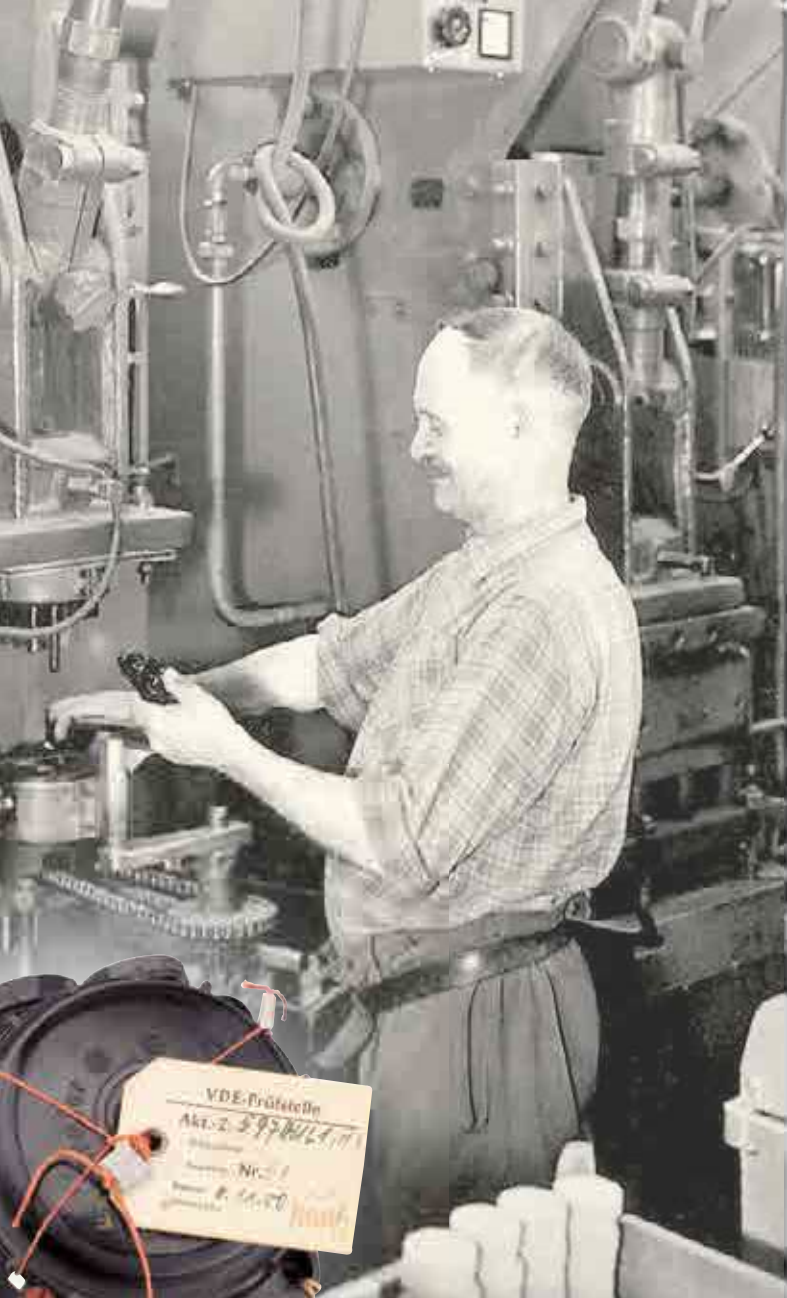




safe.inspiring.green.





**Those who trust Spelsberg |**

Get housing expertise with over 120 years of experience.

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	<b>INDUSTRIAL ENCLOSURE</b> Plastics					<b>INDUSTRIAL- + OUTDOOR</b> ENCLOSURES + CABINETS	Terminal block housings
Series	<b>TK-PS</b>	<b>TK-PC</b>	<b>TKS</b>	<b>TG-ABS</b>	<b>TG-PC</b>	<b>GEOS</b>	<b>RKi /RKKi PC</b>
							
Dimension min. (mm)	65 x 65 x 57	50 x 52 x 35	254 x 180 x 90	84 x 82 x 55	84 x 82 x 55	300 x 300 x 180	94 x 65 x 57
Dimension max. (mm)	360 x 254 x 165	360 x 254 x 165	361 x 254 x 111	302 x 232 x 120	302 x 232 x 120	400 x 500 x 226	300 x 600 x 132
Material	Polystyrene	Polycarbonate	Polycarbonate	ABS	Polycarbonate	Polycarbonate	Polycarbonate
Protection class	IP66	IP66	IP30	IP66 / IP67	IP66 / IP67	IP66 / IP67	IP66 / IP65 / IP54
IK value	IK07	IK08	IK07	IK07	IK08	IK09	IK08
UL certified	--	<input checked="" type="checkbox"/>	--	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	--
Page	<b>20 - 27</b>	<b>20 - 27</b>	<b>28 - 31</b>	<b>32 - 37</b>	<b>32 - 37</b>	<b>38 - 55</b>	<b>56 - 57</b>

▶▶▶ **Technical information** page 94 - 99

INDUSTRIAL ENCLOSURE ALUMINIUM	INSULATED DISTRIBUTION BOX	SOCKET DISTRIBUTION BOXES	SOCKET DISTRIBUTION BOXES	INDUSTRIAL ENCLOSURE Plastics	SMALL DISTRIBUTIONS BOARDS		INDUSTRIAL- + OUTDOOR JUNCTION BOXES	INDUSTRIAL- + OUTDOOR JUNCTION BOXES
AL	GTi	STV	STK	AKL / AKi-L	AK	AK UL	Abox Pro XT Abox Pro XT SL	AboxPro
								
50 x 45 x 30	320 x 220 x 179	125 x 200 x 122	150 x 300 x 132	315 x 300 x 155	90 x 90 x 60		90 x 90 x 60	
330 x 230 x 111	440 x 640 x 179	250 x 400 x 122	300 x 600 x 209	315 x 750 x 155	150 x 150 x 85		250 x 250 x 120	
Aluminium	Polycarbonate	Polycarbonate	Polystyrene / Polycarbonate	Polycarbonate	Polycarbonate		Polycarbonate	
IP66	IP65	IP44	IP65	IP65	IP68		IP 66 / 67 / 69	
IK09	IK08	IK08	IK07 / IK08	IK08	IK09		IK09	
---	---	---	---	---	<input checked="" type="checkbox"/>	---	---	
<b>58 - 61</b>	<b>62 - 67</b>	<b>68 - 73</b>	<b>74 - 77</b>	<b>78 - 85</b>	<b>86 - 93</b>		<b>86 - 93</b>	

ABS = Acrylnitril-Butadien-Styrol \*protected outdoor installations

We are happy to provide you with the 3D data of the enclosures.



You can easily register at [www.spelsberg.com](http://www.spelsberg.com) via the „mySpelsberg“ login area.  
Planning data and tender texts are available for download here.



## Spelsberg | Schalksmühle



Customers who purchase products from Spelsberg receive brand-name quality that is developed, manufactured and tested in Germany. In addition to our headquarters in Schalksmühle, we have a production facility in Buttstädt, Thuringia. Spelsberg is also represented by a dense network of company-owned subsidiaries and sales offices worldwide.

Schalksmühle – where it all began! Spelsberg is still headquartered in the city where the first insulating tubes were developed and manufactured in 1904. The company grew continuously and increasingly expanded its production facilities until it outgrew the city centre. As a result, the company relocated to an industrial area in the 1990s, where the new administrative and production centre were built.

The managing directors work here, development testing and assembly are also carried out here. Whether you're looking for sales, purchasing, prototyping or the laboratory, all expertise is close to hand at the head office. This is the driving force behind the innovative power and short reaction times. Therefore, it is only natural to always remain a step ahead of the sector.



## Spelsberg | Branch factory Buttstädt



### Buttstädt – the plastics centre

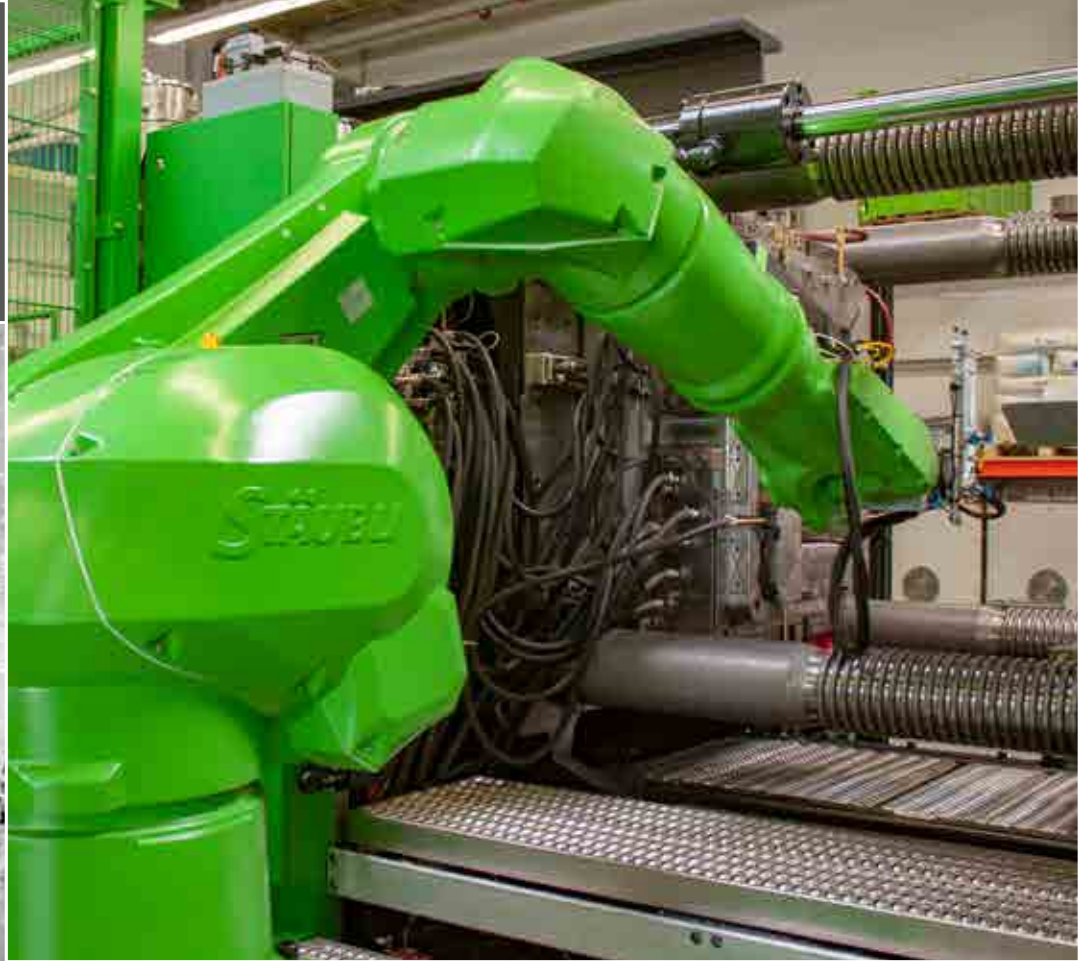
The 100 million plastic parts produced by Spelsberg each year do not originate from Schalksmühle alone. The company has also had a production location in Buttstädt, Thuringia since the 1990s, where the high-quality enclosures are manufactured in series production.

Whether it's a two-component injection mould, seal foam or a custom mix of materials, Buttstädt also provides the expected variety and quality with state-of-the-art machinery and a large supply of tools.

A flow pattern simulation helps to continuously optimise the processes and to ensure the best results right from the start in new designs.

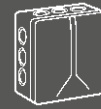


Testing and certification in accordance with VDE and UL are carried out in our in-house laboratory




Flexible assembly and manufacturing automation with more than 1,000 production orders and almost 50,000 material movements per week enables large quantities and also one-piece lot sizes to be produced. One-piece flow assembly conveyors enable up to 6 different assembly tasks to be completed one after the other without an intermediate buffer.

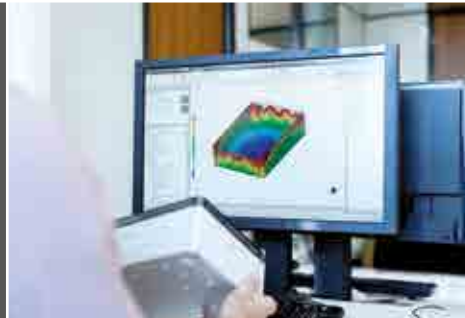
## Special and large orders |



More than 300,000 parts per day leave our two production locations in North Rhine-Westphalia and Thuringia

**Modern machinery:**  
90 casting machines with a clamping force of 25 t to 900 t



Spelsberg supplies many components optionally pre-assembled, partially wired or already complete. Depending on the requirements in question, they are then fitted with electronic modules, optical components, control elements or communication modules.

This enables us to offer a wide range of enclosures and enclosure systems for different industrial sectors. The Spelsberg products are used in the measurement, control, regulation and telecommunications technology sectors among others.

Furthermore, we supply renowned customers in the mechanical and plant engineering, light and electrical engineering, sanitary and infrastructure sectors.



When you are looking for tested safety and brand-name quality, Spelsberg is the answer. We only use high-quality brand-name European raw materials for the more 100 million injection-moulded parts that we produce each year.

We use a total of 400 raw material types – 95 % of which are produced according to our own recipe. Our products with especially high durability bear the iQ mark for industrial quality.

## Test and certification centre |



In-house  
test laboratory

The most modern  
technology

VDE + UL audited

Spelsberg operates an in-house test laboratory at its headquarters in Schalksmühle for certification purposes. The laboratory and devices are not just VDE-certified, they are also UL-certified, thus enabling all of the necessary inspections for the international use of series products and special solutions to be conducted in-house.

This possibility is especially important when developing tailor-made solutions together with our partners. The aim here is to help our customers get their products to market readiness as rapidly as possible.

The test laboratory is equipped to state-of-the-art standards and is subject to ongoing further development. UL and VDE conduct an annual audit as part of the Client Test Data Program to assure that work continues to be carried out at a consistently high standard.



Ruggedness, reliability and flexibility – these are the things that Spelsberg’s industrial products stand for. The company has marked its specially developed housings, distributors and junction boxes with its iQ seal for industrial quality. This seal guarantees the best material characteristics, certified safety and optimum functionality and durability under extreme conditions.

Fibreglass-reinforced polycarbonate ensures that the industrial products are even tougher than Spelsberg’s popular standard products. Neither heat nor cold nor moisture can harm them, and they also resist UV radiation, oils, greases and mechanical stress.

With these characteristics, they reliably protect the electrical installation in machinery and industrial facilities from lubricants, shocks and impacts.



**Custom solutions** | Even under extreme conditions



### Processing service

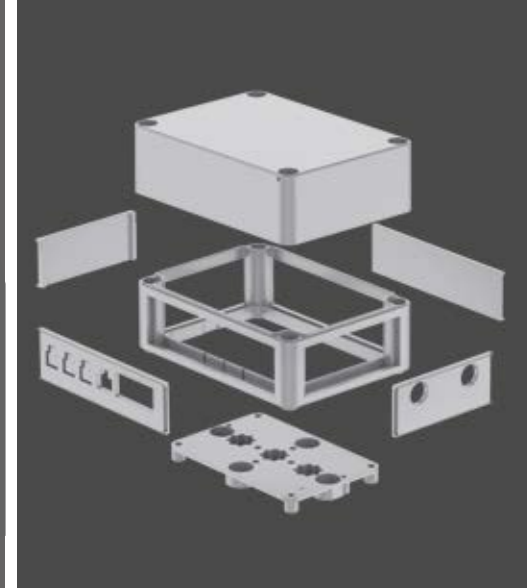
- Clearance holes
- Thread
- Engravings
- Individual fixing points (ultrasonic welding)
- EMV coating
- Clearance holes
- Pre-embossed knock-out openings
- Fixing points
- Embossing



CNC-controlled milling centres



Digitaldruck



Modular tools



Pad printing



Wiring / testing



Special assembly

#### Machining service

- Openings
- Threads
- Engravings
- Individual fastening points (Ultrasonic welding)
- EMC coatings

#### Modular tools:

- Openings
- Pre-embossing
- Fastening points
- Embossing

#### Print Service

- Design foils
- Membrane keyboards
- Screen printing, pad printing, digital printing and laser printing
- Hot stamping

#### Assembly Service

- Pick-and-place (PCB's)
- Wiring
- Checking

#### Packaging Service

- Production-oriented
  - loose and separated articles
- Ready for despatch
  - assembled articles, shrink-wrapped and labeled individually



Design films

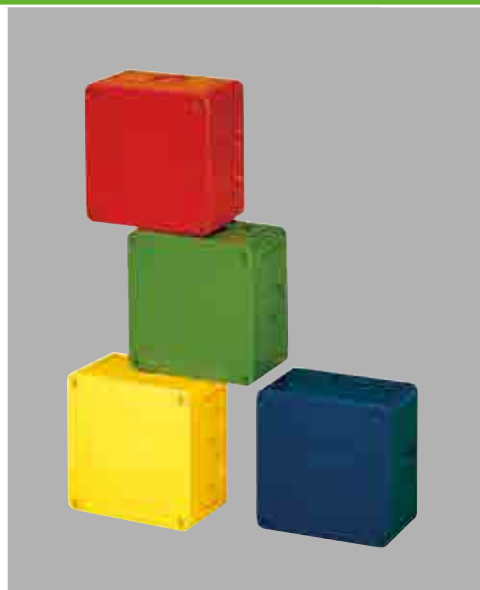
Hot embossing



Laser printing



Special accessories, e.g. mast clamp brackets



Special colours



Latches

#### Special Accessories

- Clamp holder
- Pole-clamp
- Snap fit
- Printed circuit board (PCB) holder

#### Special Colors

- Handling:  
Pigmented or coated
- RAL, HKS and Pantone colors  
are possible

#### Materials

- Same enclosure sizes are available  
in different qualities / materials  
- Always matching the requirements  
on site

#### Standard-quality

- Polystyrene, plastic
- ABS resin, plastic
- Duroplast, plastic

#### Industrial quality:

For highest material requisition

- Polycarbonate, glas-fibre reinforced,  
UL certified (for American and  
Canadian market)
- Aluminium (on request with  
American and Canadian certification)



1) Consultation / support



2) Project management



3) Development / construction



7) Testing / certification



The many processes in a company line up like the individual links of a chain. Just one strong connection of the individual components gives the chain as a whole its stability. Each chain link makes one significant contribution to success.

That's why we at Spelsberg attach great importance to every small part of our process chain, and with modern processes, state-of-the-art plant technology and highly qualified employees, ensure that everything is right in the end.

In order to not leave anything to chance, we bundle all the know-how we need for the development and production of our premium housings in-house.

## Unprecedented competence chain |



4) ProtoTypeing



5) Tool design



6) Tool production



8) Manufacturing



9) Enclosure production



10) Delivery

Whether toolmaking, prototyping or printing: only those who do everything themselves have all the parameters under control. Precisely because every day thousands of die-casting parts come from fully automated production, we afford ourselves manufacturing in which we can react quickly to customer requests.

Although we have more than 5000 products in our product range, we have greatly expanded the areas of service and customising in recent years in order to be able to meet individual requirements even better and faster. This is how we have established ourselves in the industry as an experienced guidebook that solves housing challenges with a lot of experience and passion.

Like the links of a chain, our departments interlock and work together in close consultation with the customer to develop both quick and creative solutions. From consulting to development and production to testing and certification, we offer everything our customers need.



Regardless of whether you produce products for industrial purposes or you are searching for solutions for industrial or systems engineering in your company, we have the right product for every situation. We currently offer more than 1,000 different enclosure variants for industrial applications.

We can supply you with these with different dimensions, with pre-cut openings and suitable accessories. Our products for industrial applications meet the highest standards.

Enclosure systems made of glass-fibre reinforced polycarbonate withstand the harsh conditions of your production without problems and ensure a smooth process. Humidity, cold or heat can have just as little effect on the products as UV radiation, oils, greases or mechanical strains.

**The right enclosure for every application |**

More than 1,000 different enclosure variants

All enclosures are customisable

CAD data can be viewed online



- Up to IP 67, Type rating 4x
- From 50 x 50 x 30 mm to 440 x 640 x 179 mm
- Made of ABS, polystyrene, polycarbonate or aluminium
- Mechanical processing
- Printing
- Assembly service
- With and without cutouts / entry points
- Comprehensive accessories
- Special colours

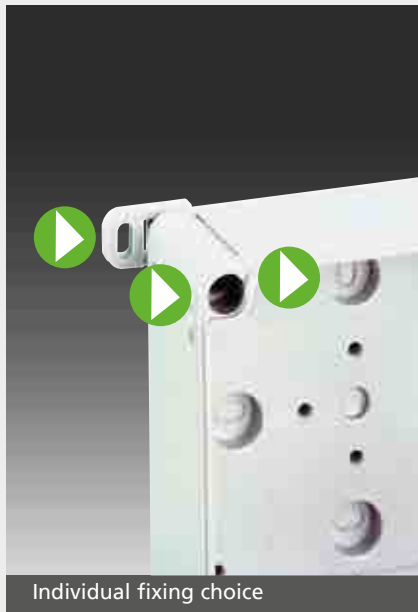




- 15 basic enclosures with up to three different cover heights
- Cover grey or transparent
- Plastic: choice of polystyrene (TK PS) or glass-fibre-reinforced
- Side walls smooth or with metric knockouts
- Modular tools: Economical customisation
- TK-PC enclosure, serially with cULus approval
- Extensive accessories
- Resistance to cowshed air from at least 20 years
- Resistance against ammonia

IP66	IK07		690V AC	1000V DC		TK PS				
IP66	IK08		690V AC	1000V DC						TK PC

## Empty enclosures | TK PS / TK PC



Individual fixing choice



Din rail / Mounting plate



Knockouts



External hinges



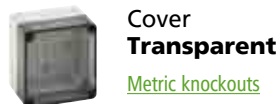
### Example of TK designation scheme





**Cover Grey**  
Metric knockouts

Type	Order-No.
TK PS 77-6-m	<b>105 401 01</b>
TK PS 77-8-m	<b>105 901 01</b>
TK PS 97-6-m	<b>105 402 01</b>
TK PS 97-8-m	<b>105 902 01</b>
TK PS 99-6-m	<b>105 403 01</b>
TK PS 99-8-m	<b>105 903 01</b>
TK PS 1111-7-m	<b>105 404 01</b>
TK PS 1111-9-m	<b>105 904 01</b>
TK PS 1309-6-m	<b>105 409 01</b>
TK PS 1309-8-m	<b>105 909 01</b>
TK PS 1313-7-m	<b>105 405 01</b>
TK PS 1313-10-m	<b>105 905 01</b>
TK PS 1809-6-m	<b>105 410 01</b>
TK PS 1809-8-m	<b>105 910 01</b>
TK PS 1811-6f-m	<b>105 414 01</b>
TK PS 1811-8f-m	<b>105 914 01</b>
TK PS 1811-9-m	<b>105 406 01</b>
TK PS 1811-11-m	<b>105 906 01</b>
TK PS 1811-13f-m	<b>104 414 01</b>
TK PS 1811-16-m	<b>104 406 01</b>
TK PS 1813-6f-m	<b>105 415 01</b>
TK PS 1813-8f-m	<b>105 915 01</b>
TK PS 1813-9-m	<b>105 416 01</b>
TK PS 1813-11-m	<b>105 916 01</b>
TK PS 1813-13f-m	<b>104 415 01</b>
TK PS 1813-16-m	<b>104 416 01</b>
TK PS 1818-6f-m	<b>105 413 01</b>
TK PS 1818-8f-m	<b>105 913 01</b>
TK PS 1818-9-m	<b>105 407 01</b>
TK PS 1818-11-m	<b>105 907 01</b>
TK PS 1818-13f-m	<b>104 413 01</b>
TK PS 1818-16-m	<b>104 407 01</b>
TK PS 2518-6f-m	<b>105 411 01</b>
TK PS 2518-8f-m	<b>105 911 01</b>
TK PS 2518-9-m	<b>105 408 01</b>
TK PS 2518-11-m	<b>105 908 01</b>
TK PS 2518-13f-m	<b>104 411 01</b>
TK PS 2518-16-m	<b>104 408 01</b>
TK PS 3625-11-m	<b>105 412 01</b>
TK PS 3625-16-m	<b>105 912 01</b>



**Cover Transparent**  
Metric knockouts

Type	Order-No.
TK PS 77-6-tm	<b>106 001 01</b>
TK PS 77-8-tm	<b>106 501 01</b>
TK PS 97-6-tm	<b>106 002 01</b>
TK PS 97-8-tm	<b>106 502 01</b>
TK PS 99-6-tm	<b>106 003 01</b>
TK PS 99-8-tm	<b>106 503 01</b>
TK PS 1111-7-tm	<b>106 004 01</b>
TK PS 1111-9-tm	<b>106 504 01</b>
TK PS 1309-6-tm	<b>106 009 01</b>
TK PS 1309-8-tm	<b>106 509 01</b>
TK PS 1313-7-tm	<b>106 005 01</b>
TK PS 1313-10-tm	<b>106 505 01</b>
TK PS 1809-6-tm	<b>106 010 01</b>
TK PS 1809-8-tm	<b>106 510 01</b>
TK PS 1811-6f-tm	<b>106 014 01</b>
TK PS 1811-8f-tm	<b>106 514 01</b>
TK PS 1811-9-tm	<b>106 006 01</b>
TK PS 1811-11-tm	<b>106 506 01</b>
TK PS 1811-13f-tm	<b>107 014 01</b>
TK PS 1811-16-tm	<b>107 006 01</b>
TK PS 1813-6f-tm	<b>106 015 01</b>
TK PS 1813-8f-tm	<b>106 515 01</b>
TK PS 1813-9-tm	<b>106 016 01</b>
TK PS 1813-11-tm	<b>106 516 01</b>
TK PS 1813-13f-tm	<b>107 015 01</b>
TK PS 1813-16-tm	<b>107 016 01</b>
TK PS 1818-6f-tm	<b>106 013 01</b>
TK PS 1818-8f-tm	<b>106 513 01</b>
TK PS 1818-9-tm	<b>106 007 01</b>
TK PS 1818-11-tm	<b>106 507 01</b>
TK PS 1818-13f-tm	<b>107 013 01</b>
TK PS 1818-16-tm	<b>107 007 01</b>
TK PS 2518-6f-tm	<b>106 011 01</b>
TK PS 2518-8f-tm	<b>106 511 01</b>
TK PS 2518-9-tm	<b>106 008 01</b>
TK PS 2518-11-tm	<b>106 508 01</b>
TK PS 2518-13f-tm	<b>107 011 01</b>
TK PS 2518-16-tm	<b>107 008 01</b>
TK PS 3625-11-tm	<b>106 012 01</b>
TK PS 3625-16-tm	<b>106 512 01</b>



**Cover Grey**  
Without knockouts

Type	Order-No.
TK PS 77-6-o	<b>110 401 01</b>
TK PS 77-8-o	<b>110 901 01</b>
TK PS 97-6-o	<b>110 402 01</b>
TK PS 97-8-o	<b>110 902 01</b>
TK PS 99-6-o	<b>110 403 01</b>
TK PS 99-8-o	<b>110 903 01</b>
TK PS 1111-7-o	<b>110 404 01</b>
TK PS 1111-9-o	<b>110 904 01</b>
TK PS 1309-6-o	<b>110 409 01</b>
TK PS 1309-8-o	<b>110 909 01</b>
TK PS 1313-7-o	<b>110 405 01</b>
TK PS 1313-10-o	<b>110 905 01</b>
TK PS 1809-6-o	<b>110 410 01</b>
TK PS 1809-8-o	<b>110 910 01</b>
TK PS 1811-6f-o	<b>110 414 01</b>
TK PS 1811-8f-o	<b>110 914 01</b>
TK PS 1811-9-o	<b>110 406 01</b>
TK PS 1811-11-o	<b>110 906 01</b>
TK PS 1811-13f-o	<b>109 414 01</b>
TK PS 1811-16-o	<b>109 406 01</b>
TK PS 1813-6f-o	<b>110 415 01</b>
TK PS 1813-8f-o	<b>110 915 01</b>
TK PS 1813-9-o	<b>110 416 01</b>
TK PS 1813-11-o	<b>110 916 01</b>
TK PS 1813-13f-o	<b>109 415 01</b>
TK PS 1813-16-o	<b>109 416 01</b>
TK PS 1818-6f-o	<b>110 413 01</b>
TK PS 1818-8f-o	<b>110 913 01</b>
TK PS 1818-9-o	<b>110 407 01</b>
TK PS 1818-11-o	<b>110 907 01</b>
TK PS 1818-13f-o	<b>109 413 01</b>
TK PS 1818-16-o	<b>109 407 01</b>
TK PS 2518-6f-o	<b>110 411 01</b>
TK PS 2518-8f-o	<b>110 911 01</b>
TK PS 2518-9-o	<b>110 408 01</b>
TK PS 2518-11-o	<b>110 908 01</b>
TK PS 2518-13f-o	<b>109 411 01</b>
TK PS 2518-16-o	<b>109 408 01</b>
TK PS 3625-11-o	<b>110 412 01</b>
TK PS 3625-16-o	<b>110 912 01</b>



**Cover Transparent**  
Without knockouts

Type	Order-No.
TK PS 77-6-to	<b>111 001 01</b>
TK PS 77-8-to	<b>111 501 01</b>
TK PS 97-6-to	<b>111 002 01</b>
TK PS 97-8-to	<b>111 502 01</b>
TK PS 99-6-to	<b>111 003 01</b>
TK PS 99-8-to	<b>111 503 01</b>
TK PS 1111-7-to	<b>111 004 01</b>
TK PS 1111-9-to	<b>111 504 01</b>
TK PS 1309-6-to	<b>111 009 01</b>
TK PS 1309-8-to	<b>111 509 01</b>
TK PS 1313-7-to	<b>111 005 01</b>
TK PS 1313-10-to	<b>111 505 01</b>
TK PS 1809-6-to	<b>111 010 01</b>
TK PS 1809-8-to	<b>111 510 01</b>
TK PS 1811-6f-to	<b>111 014 01</b>
TK PS 1811-8f-to	<b>111 514 01</b>
TK PS 1811-9-to	<b>111 006 01</b>
TK PS 1811-11-to	<b>111 506 01</b>
TK PS 1811-13f-to	<b>112 014 01</b>
TK PS 1811-16-to	<b>112 006 01</b>
TK PS 1813-6f-to	<b>111 015 01</b>
TK PS 1813-8f-to	<b>111 515 01</b>
TK PS 1813-9-to	<b>111 016 01</b>
TK PS 1813-11-to	<b>111 516 01</b>
TK PS 1813-13f-to	<b>112 015 01</b>
TK PS 1813-16-to	<b>112 016 01</b>
TK PS 1818-6f-to	<b>111 013 01</b>
TK PS 1818-8f-to	<b>111 513 01</b>
TK PS 1818-9-to	<b>111 007 01</b>
TK PS 1818-11-to	<b>111 507 01</b>
TK PS 1818-13f-to	<b>112 013 01</b>
TK PS 1818-16-to	<b>112 007 01</b>
TK PS 2518-6f-to	<b>111 011 01</b>
TK PS 2518-8f-to	<b>111 511 01</b>
TK PS 2518-9-to	<b>111 008 01</b>
TK PS 2518-11-to	<b>111 508 01</b>
TK PS 2518-13f-to	<b>112 011 01</b>
TK PS 2518-16-to	<b>112 008 01</b>
TK PS 3625-11-to	<b>111 012 01</b>
TK PS 3625-16-to	<b>111 512 01</b>

## Empty enclosures | TK PS / TK PC



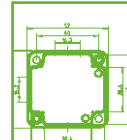
Cover  
**Grey**

Metric knockouts



Cover  
**Transparent**

Metric knockouts




**Dimensions  
in millimeter**

Type	Order-No.
TK PC 55-4-m	127 455 01
TK PC 75-4-m	127 475 01
TK PC 75-4-2v	128 475 01
TK PC 77-6-m	127 401 01
TK PC 77-8-m	127 901 01
TK PC 97-6-m	127 402 01
TK PC 97-8-m	127 902 01
TK PC 99-6-m	127 403 01
TK PC 99-8-m	127 903 01
TK PC 1005-4-m	127 480 01
TK PC 1005-4-o	120 480 01
TK PC 1111-7-m	127 404 01
TK PC 1111-9-m	127 904 01
TK PC 1309-6-m	127 409 01
TK PC 1309-8-m	127 909 01
TK PC 1313-7-m	127 405 01
TK PC 1313-10-m	127 905 01
TK PC 1809-6-m	127 410 01
TK PC 1809-8-m	127 910 01
TK PC 1811-6f-m	127 414 01
TK PC 1811-8f-m	127 914 01
TK PC 1811-9-m	127 406 01
TK PC 1811-11-m	127 906 01
TK PC 1811-13f-m	128 414 01
TK PC 1811-16-m	128 406 01
TK PC 1813-6f-m	127 415 01
TK PC 1813-8f-m	127 915 01
TK PC 1813-9-m	127 416 01
TK PC 1813-11-m	127 916 01
TK PC 1813-13f-m	128 415 01
TK PC 1813-16-m	128 416 01
TK PC 1818-6f-m	127 413 01
TK PC 1818-8f-m	127 913 01
TK PC 1818-9-m	127 407 01
TK PC 1818-11-m	127 907 01
TK PC 1818-13f-m	128 413 01
TK PC 1818-16-m	128 407 01
TK PC 2518-6f-m	127 411 01
TK PC 2518-8f-m	127 911 01
TK PC 2518-9-m	127 408 01
TK PC 2518-11-m	127 908 01
TK PC 2518-13f-m	128 411 01
TK PC 2518-16-m	128 408 01
TK PC 3625-11-m	127 412 01
TK PC 3625-16-m	127 912 01

Type	Order-No.
TK PC 55-4-tm	137 455 01
TK PC 75-4-tm	137 475 01
TK PC 75-4-2tv	138 475 01
TK PC 77-6-tm	137 001 01
TK PC 77-8-tm	137 501 01
TK PC 97-6-tm	137 002 01
TK PC 97-8-tm	137 502 01
TK PC 99-6-tm	137 003 01
TK PC 99-8-tm	137 503 01
TK PC 1005-4-tm	137 480 01
TK PC 1005-4-to	130 480 01
TK PC 1111-7-tm	137 004 01
TK PC 1111-9-tm	137 504 01
TK PC 1309-6-tm	137 009 01
TK PC 1309-8-tm	137 509 01
TK PC 1313-7-tm	137 005 01
TK PC 1313-10-tm	137 505 01
TK PC 1809-6-tm	137 010 01
TK PC 1809-8-tm	137 510 01
TK PC 1811-6f-tm	137 014 01
TK PC 1811-8f-tm	137 514 01
TK PC 1811-9-tm	137 006 01
TK PC 1811-11-tm	137 506 01
TK PC 1811-13f-tm	138 014 01
TK PC 1811-16-tm	138 006 01
TK PC 1813-6f-tm	137 015 01
TK PC 1813-8f-tm	137 515 01
TK PC 1813-9-tm	137 016 01
TK PC 1813-11-tm	137 516 01
TK PC 1813-13f-tm	138 015 01
TK PC 1813-16-tm	138 016 01
TK PC 1818-6f-tm	137 013 01
TK PC 1818-8f-tm	137 513 01
TK PC 1818-9-tm	137 007 01
TK PC 1818-11-tm	137 507 01
TK PC 1818-13f-tm	138 013 01
TK PC 1818-16-tm	138 007 01
TK PC 2518-6f-tm	137 011 01
TK PC 2518-8f-tm	137 511 01
TK PC 2518-9-tm	137 008 01
TK PC 2518-11-tm	137 508 01
TK PC 2518-13f-tm	138 011 01
TK PC 2518-16-tm	138 008 01
TK PC 3625-11-tm	137 012 01
TK PC 3625-16-tm	137 512 01


52 x 50 x 35
65 x 50 x 35
65 x 50 x 35
65 x 65 x 57
65 x 65 x 81
94 x 65 x 57
94 x 65 x 81
94 x 94 x 57
94 x 94 x 81
100 x 52 x 37
100 x 52 x 37
110 x 110 x 66
110 x 110 x 90
130 x 94 x 57
130 x 94 x 81
130 x 130 x 75
130 x 130 x 99
180 x 94 x 57
180 x 94 x 81
180 x 110 x 63
180 x 110 x 84
180 x 110 x 90
180 x 110 x 111
180 x 110 x 137
180 x 110 x 165
180 x 130 x 63
180 x 130 x 84
180 x 130 x 90
180 x 130 x 111
180 x 130 x 137
180 x 130 x 165
182 x 180 x 63
182 x 180 x 84
182 x 180 x 90
182 x 180 x 111
182 x 180 x 137
182 x 180 x 165
254 x 180 x 63
254 x 180 x 84
254 x 180 x 90
254 x 180 x 111
254 x 180 x 137
254 x 180 x 165
361 x 254 x 111
361 x 254 x 165



**Mounting plate**  
Insulating material

Product	Enclosure	Order-No.	Dimensions (mm)
TK MPI-77	TK PS/PC 77	<b>195 001 01</b>	<b>45 x 45 x 2,5</b>
TK MPI-97	TK PS/PC 97	<b>195 002 01</b>	<b>74 x 45 x 2,5</b>
TK MPI-99	TK PS/PC 99	<b>195 003 01</b>	<b>74 x 74 x 2,5</b>
TK MPI-1111	TK PS/PC 1111	<b>195 004 01</b>	<b>90 x 90 x 2,5</b>
TK MPI-1309	TK PS/PC 1309	<b>195 009 01</b>	<b>110 x 74 x 2,5</b>
TK MPI-1313	TK PS/PC 1313	<b>195 005 01</b>	<b>110 x 110 x 2,5</b>
TK MPI-1809	TK PS/PC 1809	<b>195 010 01</b>	<b>160 x 74 x 2,5</b>


Mounting plate made from insulating material, incl. fixing screws and spacers



**Mounting plate**  
Stainless steel

Product	Enclosure	Order-No.	Dimensions (mm)
TK MPS-77	TK PS/PC 77	<b>197 001 01</b>	<b>45 x 45 x 2,5</b>
TK MPS-97	TK PS/PC 97	<b>197 002 01</b>	<b>74 x 45 x 2,5</b>
TK MPS-99	TK PS/PC 99	<b>197 003 01</b>	<b>74 x 74 x 2,5</b>
TK MPS-1111	TK PS/PC 1111	<b>197 004 01</b>	<b>90 x 90 x 2,5</b>
TK MPS-1309	TK PS/PC 1309	<b>197 009 01</b>	<b>110 x 74 x 2,5</b>
TK MPS-1313	TK PS/PC 1313	<b>197 005 01</b>	<b>110 x 110 x 2,5</b>
TK MPS-1809	TK PS/PC 1809	<b>197 010 01</b>	<b>160 x 74 x 2,5</b>

Mounting plate made from steel galvanized, incl. fixing screws and spacers



**Mounting plate**  
Insulating material

Product	Enclosure	Order-No.	Dimensions (mm)
TK MPI-1811	TK PS/PC 1811	<b>195 006 01</b>	<b>150 x 90 x 2,5</b>
TK MPI-1813	TK PS/PC 1813	<b>195 011 01</b>	<b>100 x 146 x 2,5</b>
TK MPI-1818	TK PS/PC 1818	<b>195 007 01</b>	<b>150 x 150 x 2,5</b>
TK MPI-2518	TK PS/PC 2518	<b>195 008 01</b>	<b>220 x 150 x 2,5</b>
TK MPI-3625	TK PS/PC 3625	<b>195 012 01</b>	<b>331 x 220 x 2,5</b>


Mounting plate made from insulating material, incl. fixing screws



**Mounting plate**  
Stainless steel

Product	Enclosure	Order-No.	Dimensions (mm)
TK MPS-1811	TK PS/PC 1811	<b>197 006 01</b>	<b>150 x 90 x 2</b>
TK MPS-1813	TK PS/PC 1813	<b>197 011 01</b>	<b>146 x 100 x 2</b>
TK MPS-1818	TK PS/PC 1818	<b>197 007 01</b>	<b>150 x 150 x 2</b>
TK MPS-2518	TK PS/PC 2518	<b>197 008 01</b>	<b>220 x 150 x 2</b>
TK MPS-3625	TK PS/PC 3625	<b>197 012 01</b>	<b>331 x 220 x 2</b>

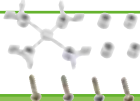
Mounting plate made from steel galvanized, incl. fixing screws



**Mounting plate**  
Insulating material

Product	Enclosure	Order-No.	Dimensions (mm)
TK MPI-55	TK PC 55	<b>195 055 01</b>	<b>46 x 44 x 2</b>
TK MPI-75	TK PC 75	<b>195 075 01</b>	<b>59 x 44 x 2</b>


Mounting plate made from insulating material with mounting plate bracket for assembly without tools, set of 5 pieces



**Spacing kit**

Product	Order-No.
TK DST	<b>194 100 01</b>


Spacer kit TK DST for creating a space between enclosure bottom and conductor or mounting plate 4 pieces spacing 6 mm, 4 pieces spacing 8 mm, incl. fixing screws for TK PS/PC



**Din Rail NS 35**

Product	Enclosure	Order-No.
NS 35-81	TK PS/PC 1111/1309/ 1313/1809/1811	<b>198 081 01</b>
NS 35-106	TK PS/PC 1309/1313	<b>198 106 01</b>
NS 35-144	TK PS/PC 1809/1811/ 1813/1818/2518	<b>198 144 01</b>
NS 35-216	TK PS/PC 2518/3625	<b>198 216 01</b>
NS 35-336	TK PS/PC 3625	<b>198 336 01</b>

Standard rail acc. to DIN EN 60715, 35 x 7.5 mm, incl. fixing screws



**Din Rail TS 15**

Product	Enclosure	Order-No.
TS 15-49,5	TK PS/PC 77/97	<b>197 049 01</b>
TS 15-80	TK PS/PC 97/99/1111/ 1309/1313/1809/1811	<b>197 080 01</b>
TS 15-92	TK PS/PC 1111/1309/ 1313/1809/1811	<b>197 092 01</b>
TS 15-111	TK PS/PC 1309/1313	<b>197 111 01</b>
TS 15-154	TK PS/PC 1809/1811/ 1813/1818/2518	<b>197 154 01</b>

Standard rail acc. to DIN EN 60715, 15 x 5, width 15 mm, incl. fixing screws



### Montage- / Leiterplattenhalter



#### Product

#### Order-No.

TK MLH-55/75 (Set=25 Paar)

**194 110 01**

Mounting/PCB holder made of plastic, suitable for assembly without tools in TK PC 55 and TK PC 75



### External hinge set



#### Product

#### Order-No.

ASS-kl (TK PS/PC 77 bis TK PS/PC 1809)

**190 002 01**

ASS-gro (TK PS/PC 1811 and ab AKL/AKi1)

**190 005 01**

External hinge set for retrofitting the enclosure cover to hinged door, incl. 2 hinges, fixing screws, cover plugs and drilling template



### External fixing plate



#### Product

#### Order-No.

TK ABP-55/75 (Set=10 Stück)

**194 002 01**

External mounting plate made of plastic, for TK PC 55 and TK PC 75



### External fixing lugs kit



#### Product

#### Order-No.

TK ABL

**194 001 01**

External fixing lugs set made of plastic, for all TK PS/PC, RK enclosures, from TK PS/PC 77



### Padlock kit

#### Product

#### Order-No.

VSG (ab TK PS/PC 1811 and AKL/AKi 1)

**190 100 01**

Padlock kit for upgrading the housing cover to lockable hinged door, incl. padlock, 2 hinges, fixing screws, cover plugs and drilling template



### Mounting material HBA



#### Product

#### Order-No.

HBA (Set= 4 Stck.)

**190 001 01**

Manual activation attachment consisting of plastic for snapping onto the standard lid screw for TK PS/PC 77 and higher (except TK 1005)



### Partition wall

#### Product

#### Order-No.

TK TW-n  
for TK PS/PC 1309-6 and TK PS/PC 1809-6

**196 009 01**

TK TW-h  
for TK PS/PC 1309-8 and TK PS/PC 1809-8

**196 009 01**

Divider made of plastic, suitable for the separation of two electric circuits



### Handle

#### Product

#### Order-No.

TG2 with self-cutting screws

**191 805 01**

TG1 with screws M6 and nuts made of plastic

**191 800 01**

Handle made of plastic, for mobile use of housing, screw spacing 120 mm



### Combi set

#### Product

for wall thickness

Thread length

#### Order-No.

KS M20

2x 3,0 mm

12 mm

**192 020 01**

KS M25-gro

2x 8,0 mm

22 mm

**192 026 01**

KS M25

2x 3,0 mm

12 mm

**192 025 01**

KS M32

2x 3,5 mm

14 mm

**192 032 01**

Combi set, for side connection of enclosures with metric entries, complete with lock nuts and intermediate wall seal inserts



### Combi set

#### Product

#### Order-No.

TK KS GRO

**192 018 01**


Combi set for combining enclosures from TK PS/PC 1811 (except for flat design), complete with screws and nuts made from plastic, intermediate sealing and drilling template

 <b>Lid screw</b>			
Product	for Cover	Colour	Order-No.
TK DS-ku/g	flat	grey	<b>190 010 01</b>
TK DS-ku/sw	flat	black	<b>190 012 01</b>
TK DS-lg/g	high	grey	<b>190 011 01</b>
TK DS-lg/sw	high	black	<b>190 013 01</b>

Cover screw as additional screw, from TK PS/PC 77

 <b>Installation screw</b>	
Product	Order-No.
TK ES-55/75/1005	<b>190 200 01</b>

Self-cutting screw, for mounting assembly parts in TK PC 55 / 75 / 1005

 <b>Lid screw</b>	
Product	Order-No.
LFR through opening: M16-32, drill hole: 16.5-32.5 mm	<b>195 995 01</b>

Hole cutter

 <b>Coverscrew</b>			
Product	Cover	Colour	Order-No.
TK DS-ku/g/T40	flat	grey	<b>190 014 01</b>
TK DS-ku/sw/T40	flat	black	<b>190 015 01</b>
TK DS-lg/g/T40	high	grey	<b>190 016 01</b>
TK DS-lg/sw/T40	high	black	<b>190 017 01</b>

Cover screw with special head prevents opening by unauthorised persons, can be sealed additionally, special screwdriver required, set=12 pieces, for TK PS/PC 77 and higher (except TK 1005)



## Accessories Empty enclosures | TK PS / TK PC

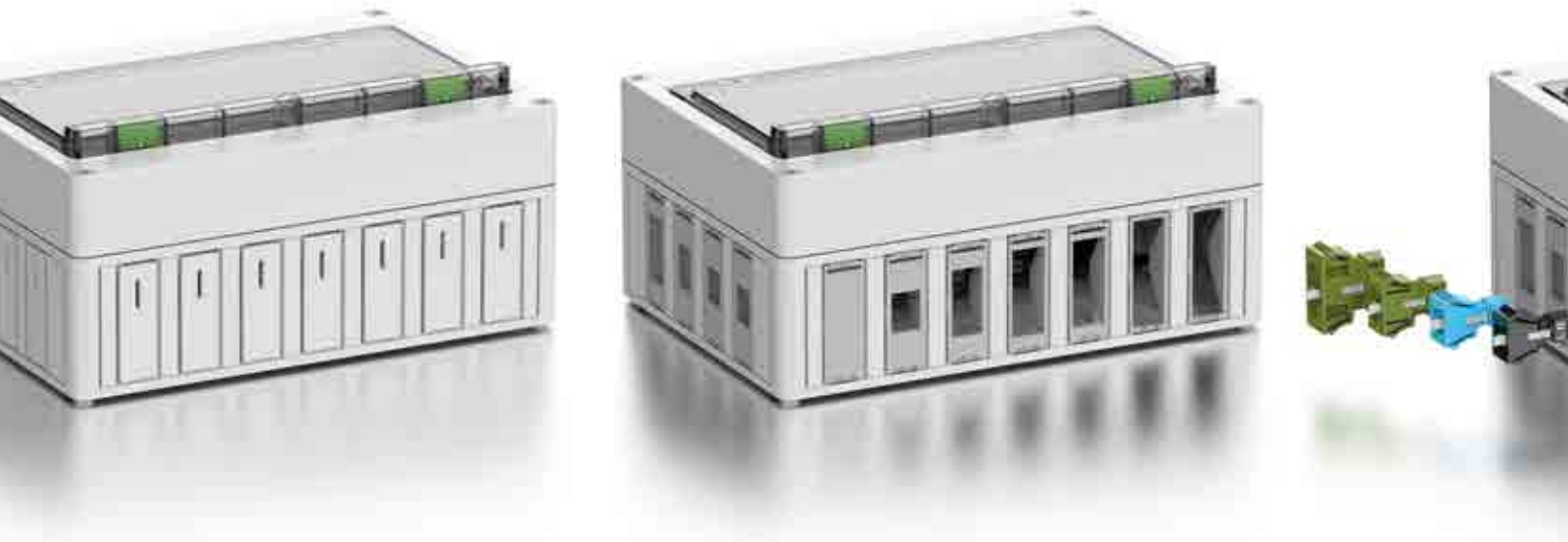




✦ The knockouts can be easily removed with a screwdriver.



✦ The adapter frame is inserted from the inside and locks to the enclosure by snapping into place.



## TKS enclosures | Plug & Play - Fast and safe installation

The new pluggable enclosures in the TKS series meet all the requirements of the building technology of tomorrow. Pre-assembled components that are precisely tailored to the individual application simultaneously enable both a high degree of safety and cost efficiency. This applies to office complexes, industrial facilities or exhibition halls.

Pluggable systems consist of pre-assembled components that simply have to be plugged together on site according to the Plug & Play principle. The individual components such as plugs, distributors or supply lines are planned and manufactured in advance on a project-specific basis. This minimises the installation effort on site.

The combination of simplicity, efficiency and safety makes pre-assembled enclosures the ideal solution for on-time construction. Plug & Play solutions meet both current and future requirements for modern building installations. They also offer an approach to counteracting the consequences of the shortage of skilled workers, because thanks to pre-assembly incorrect connections can be ruled out. This means that assembly can also be carried out by non-specialised personnel.

## Plug-in Enclosures | TKS

## TKS empty enclosures

IP30

IK07



690V  
AC



for mounting up to 26 adapter frames  
for WINSTA<sup>®</sup> plug connectors



## Advantages at a glance

### ■ Cost savings

Fast assembly, high quality and low susceptibility to faults.

### ■ Easy installation and maintenance

The Plug & Play solutions simply need to be plugged together on site.

### ■ High system security

Installation errors are practically eliminated by the mismatching protection. The factory-assembled and -tested cables offer maximum safety.

### ■ Consulting services

from our technical sales team

HOTLINE - Tel. +49 2355 892-155

### ■ Massive time savings

Pre-assembled cables and standardised pluggable connectors ensure particularly quick and easy installation on site.



TKS 2518		TKS 2518		Dimensions
Enclosure	Order-No.	Enclosure	Order-No.	
TKS 2518-9-o	<b>141 001 01</b>	TKS 2518-9-to	<b>142 001 01</b>	<b>254 x 180 x 90 mm</b>
TKS 2518-11-o	<b>141 002 01</b>	TKS 2518-11-to	<b>142 002 01</b>	<b>254 x 180 x 111 mm</b>
TKS 2518-16-o	<b>141 003 01</b>	TKS 2518-16-to	<b>142 003 01</b>	<b>254 x 180 x 165 mm</b>



TKS 2518		Dimensions
Enclosure	Order-No.	
TKS 2518-12TE	<b>143 002 01</b>	<b>254 x 180 x 111 mm</b>



**TKS AP-L**  
144 000 01

for closing enclosure openings that are not required



**TKS AP-1**  
144 001 01

for pluggable connectors Type WINSTA® MINI 2-pole



**TKS AP-2**  
144 002 01

for pluggable connectors Type WINSTA® MINI 3-pole



**TKS AP-3**  
144 003 01

for pluggable connectors Type WINSTA® MINI 4-pole



**TKS AP-4**  
144 004 01

for pluggable connectors Type WINSTA® MIDI 2-pole



TKS 3625		TKS 3625		Dimensions
Enclosure	Order-No.	Enclosure	Order-No.	
TKS 3625-11-o	<b>141 012 01</b>	TKS 3625-11-to	<b>142 012 01</b>	<b>361 x 254 x 111 mm</b>
TKS 3625-16-o	<b>141 013 01</b>	TKS 3625-16-to	<b>142 013 01</b>	<b>361 x 254 x 165 mm</b>



TKS 3625		Dimensions
Enclosure	Order-No.	
TKS 3625-24TE	<b>143 012 01</b>	<b>361 x 254 x 111 mm</b>



**TKS AP-5**  
144 005 01

for pluggable connectors  
Type WINSTA®  
MIDI 3-pole and  
MINI 5-pole



**TKS AP-6**  
144 006 01

for pluggable connectors  
Type WINSTA®  
MIDI 4-pole



**TKS AP-7**  
144 007 01

for pluggable connectors  
Type WINSTA®  
MIDI 5-pole



**TKS AP-8**  
144 008 01

for pluggable connectors  
Type Telegärtner  
100023165



**TKS AP-9**  
144 009 01

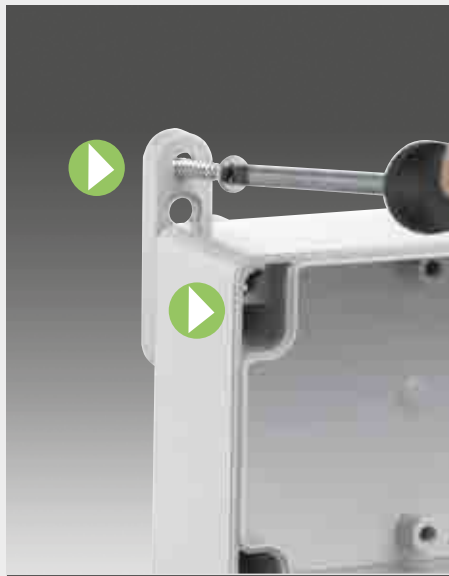
for pluggable connectors  
Type WINSTA®  
KNX



- 9 basic enclosures of various heights
- High-quality design with a stylish high-gloss appearance
- Cover grey or transparent
- Material: optionally ABS (TG ABS) or polycarbonate (TG PC)
- Smooth side walls for added flexibility
- Fixing cams in usual market positions
- Time saved by quick-release
- Cover screws on request

IP66 IP67	IK07		690V AC	1000V DC		TG ABS			
IP66 IP67	IK08		690V DC	1000V DC					TG PC

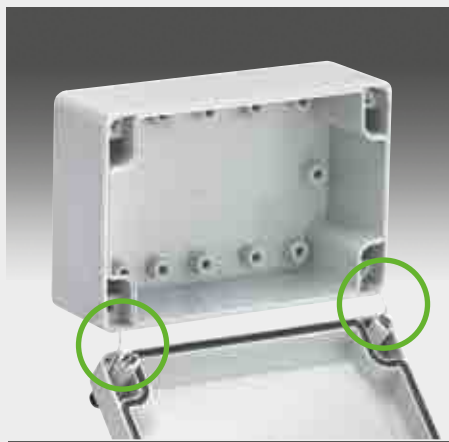
## Empty Enclosures | TG ABS / TG PC



Individual choice of fixation



Din rail



Integrated lid retainer



Functionell design



**TG ABS**Cover: Grey  
Box: Grey**TG ABS**Cover: Transparent  
Box: Grey

<b>Enclosure</b>	<b>Order-No.</b>
TG ABS 88-6-o	<b>100 403 01</b>
TG ABS 88-9-o	<b>100 903 01</b>
TG ABS 1208-6-o	<b>100 404 01</b>
TG ABS 1208-9-o	<b>100 904 01</b>
TG ABS 1212-6-o	<b>100 405 01</b>
TG ABS 1212-9-o	<b>100 905 01</b>
TG ABS 1608-6-o	<b>100 406 01</b>
TG ABS 1608-9-o	<b>100 906 01</b>
TG ABS 1612-9-o	<b>100 407 01</b>
TG ABS 2012-8-o	<b>100 408 01</b>
TG ABS 2012-9-o	<b>100 908 01</b>
TG ABS 2015-8-o	<b>100 409 01</b>
TG ABS 2516-9-o	<b>100 412 01</b>
TG ABS 2516-12-o	<b>100 912 01</b>
TG ABS 3023-9-o	<b>100 413 01</b>
TG ABS 3023-11-o	<b>100 913 01</b>

<b>Enclosure</b>	<b>Order-No.</b>
TG ABS 88-6-to	<b>101 003 01</b>
TG ABS 88-9-to	<b>101 503 01</b>
TG ABS 1208-6-to	<b>101 004 01</b>
TG ABS 1208-9-to	<b>101 504 01</b>
TG ABS 1212-6-to	<b>101 005 01</b>
TG ABS 1212-9-to	<b>101 505 01</b>
TG ABS 1608-6-to	<b>101 006 01</b>
TG ABS 1608-9-to	<b>101 506 01</b>
TG ABS 1612-9-to	<b>101 007 01</b>
TG ABS 2012-8-to	<b>101 008 01</b>
TG ABS 2012-9-to	<b>101 508 01</b>
TG ABS 2015-8-to	<b>101 009 01</b>
TG ABS 2516-9-to	<b>101 012 01</b>
TG ABS 2516-12-to	<b>101 512 01</b>
TG ABS 3023-9-to	<b>101 013 01</b>
TG ABS 3023-11-to	<b>101 513 01</b>





**Mounting plate**  
Insulating material

Product	Enclosure	Order-No.	Dimensions (mm)
TG MPI-88	TG 88	<b>186 003 01</b>	<b>73 x 53 x 2,5</b>
TG MPI-1208	TG 1208	<b>186 004 01</b>	<b>91 x 73 x 2,5</b>
TG MPI-1212	TG 1212	<b>186 005 01</b>	<b>113 x 93 x 2,5</b>
TG MPI-1608	TG 1608	<b>186 006 01</b>	<b>131 x 73 x 2,5</b>
TG MPI-1612	TG 1612	<b>186 007 01</b>	<b>131 x 113 x 2,5</b>
TG MPI-2012	TG 2012	<b>186 008 01</b>	<b>171 x 113 x 2,5</b>
TG MPI-2015	TG 2015	<b>186 009 01</b>	<b>171 x 143 x 2,5</b>
TG MPI-2516	TG 2516	<b>186 012 01</b>	<b>220 x 152 x 2,5</b>
TG MPI-3023	TG 3023	<b>186 013 01</b>	<b>270 x 220 x 2,5</b>



**Mounting plate**  
Stainless steel

Product	Enclosure	Order-No.	Dimensions (mm)
TG MPS-88	TG 88	<b>187 003 01</b>	<b>73 x 53 x 2</b>
TG MPS-1208	TG 1208	<b>187 004 01</b>	<b>91 x 73 x 2</b>
TG MPS-1212	TG 1212	<b>187 005 01</b>	<b>113 x 93 x 2</b>
TG MPS-1608	TG 1608	<b>187 006 01</b>	<b>131 x 73 x 2</b>
TG MPS-1612	TG 1612	<b>187 007 01</b>	<b>131 x 113 x 2</b>
TG MPS-2012	TG 2012	<b>187 008 01</b>	<b>171 x 113 x 2</b>
TG MPS-2015	TG 2015	<b>187 009 01</b>	<b>171 x 143 x 2</b>
TG MPS-2516	TG 2516	<b>187 012 01</b>	<b>220 x 152 x 2</b>
TG MPS-3023	TG 3023	<b>187 013 01</b>	<b>270 x 220 x 2</b>



**Din Rail NS 35**

Product	Enclosure	Order-No.
NS 35-66	TG 88	<b>198 068 01</b>
NS 35-104	TG 1208	<b>198 107 01</b>
NS 35-108	TG 1212	<b>198 110 01</b>
NS 35-144/2	TG 1608, TG 1612	<b>198 146 01</b>
NS 35-184	TG 2012	<b>198 186 01</b>
NS 35-168	TG 2015	<b>198 170 01</b>
NS 35-220	TG 2516	<b>198 222 01</b>
NS 35-283,5	TG 3023	<b>198 285 01</b>

Standard rail acc. to DIN EN 60715, 35 x 7.5, width 35 mm



**Din Rail TS 35**

Product	Enclosure	Order-No.
TS 15-66	TG 88	<b>197 069 01</b>
TS 15-104	TG 1208	<b>197 107 01</b>
TS 15-108	TG 1212	<b>197 110 01</b>
TS 15-144	TG 1608, TG 1612	<b>197 146 01</b>
TS 15-184	TG 2012	<b>197 186 01</b>
TS 15-168	TG 2015	<b>197 170 01</b>
TS 15-220	TG 2516	<b>197 222 01</b>
TS 15-283,5	TG 3023	<b>197 285 01</b>

Standard rail according to DIN EN 60715, 15 x 5 width



**Interior hinge set**



Product	Order-No.
TG ISS for TG 1612, TG 2012, TG 2015, TG 2516, TG 3023	<b>182 001 01</b>

Interior hinge set for retrofitting the housing cover to a hinged door, incl. 2 hinges, fixing screws and drilling template



**External fixing lugs kit**

Product	Order-No.
TG ABL for all TG Enclosures, Set = 4 pieces	<b>182 002 01</b>

External fixing lugs set, made of plastic



**Sealing set**



Product	Order-No.
TG PST1 for TG 88, TG 1208, TG 1212, TG 1608	<b>182 004 01</b>
TG PST2 for TG 1612, TG 2012, TG 2015, TG 2516, TG 3023	<b>182 005 01</b>



**Lid loss protection for replacement requirements**

Product	Order-No.
TG DVS-42 (Set =10 pieces) for TG 88, TG 1208, TG 1212, TG 1608	<b>182 006 01</b>
TG DVS-57 (Set =10 pieces) for TG 1612, TG 2012, TG 2015, TG 2516, TG 3023	<b>182 007 01</b>



### Hole cutter

#### Product

#### Order-No.

LFR  
through opening: M16-32,  
drill hole: 16.5-32.5 mm

**195 995 01**



**In application** | TG ABS / TG PC

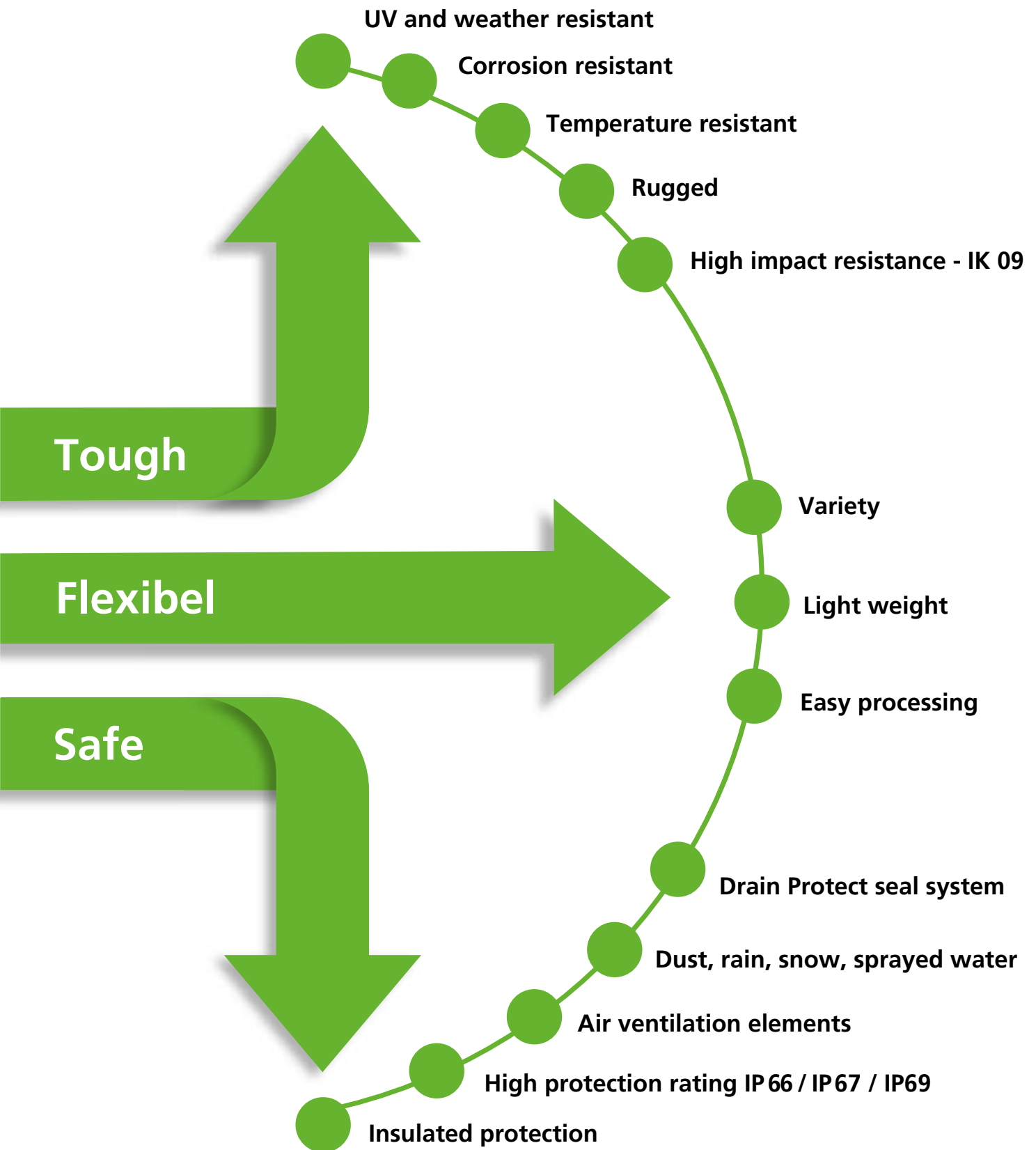


GEOS - Industrial and Outdoor Enclosure  
High quality materials and an innovative design make the new GEOS series a universal solution and longlasting enclosure for indoor and outdoor applications. The UV and weather resis-

tance of the high-quality polycarbonate and the new and innovative „Drain Protect“ seal system guarantee optimal protection against most environmental influences, as well as rain, cold and heat.

Even in tough conditions caused by aggressive atmospheres, oils, greases or mechanical stresses, you can rely on the GEOS enclosure. Certifications for the most varied applications give the user confidence at all times.





**Perfect solution for harsh conditions**



### GEOS safety

- Empty enclosures tested according to **IEC 61439** with comprehensive certifications according to IEC 62208  
UL 50  
UL 50E  
CSA 22.2

### GEOS variety

#### Empty Enclosures

- UV and corrosion resistant
- High impact resistance
- Prevention of condensation due to BEL Air ventilation elements
- 10 variants
- Horizontally or vertically format
- 3 base sizes
- Up to 2 enclosure heights
- Transparent and grey Cover
- Various Lid locking systems

#### Cabinets

- 44 variants
- Horizontally or vertically format
- Transparent, grey or black doors
- 3 base sizes
- Up to 2 enclosure heights
- Locking system - cam lock or pivoted lever

## Empty Enclosures and Cabinets | GEOS



## EMPTY ENCLOSURE

Grey enclosure with grey or transparent cover  
Black enclosure with black or transparent cover

## CABINET

Grey cabinet with grey or transparent door  
Black cabinet with black or transparent door

## CABINET

Grey cabinet with grey or transparent door  
Black cabinet with black or transparent door

## CABINET (horizontal)

Grey cabinet with grey or transparent door  
Black cabinet with black or transparent door

### GEOS applications

- Control, energy and communication technology
- Faster, cleaner and easier processing than polyester or steel enclosures
- Suitable for indoor and outdoor installation
- Optimised for industrial and outdoor applications

### GEOS sealing principle

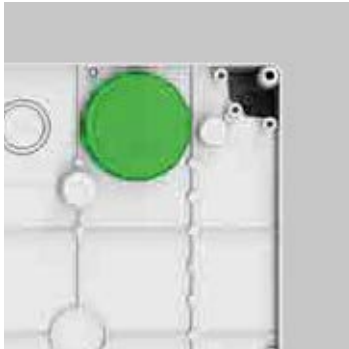
- Special housing design with permanent protection against moisture ingress
- Conduction of moisture, z. e.g. from rain or snow to the rear
- Wide overlapping cover
- Drainage channel along the sides of the housing in the lower section

- Elastomer seal
- Optimum protection of the seal from environmental influences
- Unrestricted use in different environments
- Optimised for outdoor applications



## ALL-ROUND PROTECTION THROUGH „DRAIN PROTECT“

- + Long-lasting protection against moisture
- + High protection class IP 66 / IP 67 / IP 69



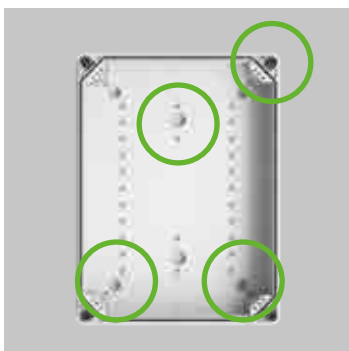
## PROTECTION AGAINST CONDENSATE WATER

- + Preparation for BEL Air M40 ventilation elements
- + Protection class IP 65



## SOLID PLASTIC ENCLOSURE

- + Fast and easy machining with low weight
- + Extremely durable: No corrosion after mechanical processing
- + Always protection class II
- + High impact resistance - IK 09



## SEVERAL MOUNTING OPTIONS

- + Easy installation via keyhole mounting
- + Mounting outside the sealing area
- + UL-compliant installation
- + Installation of preassembled enclosure



## OPTIONAL EXTERNAL FASTENING

- + Installation of assembled enclosures
- + Available in 2 heights (10 mm or 40 mm)
- + Distance from wall for optimum laying of cables
- + Mast clamp mounting





## VARIANTS

- + Grey enclosures with door and cover variants in grey or transparent
- + Black enclosures with lid variants in black or transparent



## DIFFERENT CLOSURE SYSTEMS

- + Choice between screw closure and quick-release closure or triangle-head screws
- + Doors with cam lock and pivoted lever



## EXTREMELY FLEXIBLE

- + Lids and doors can be used for enclosures and cabinets
- + Modular installation system
- + Toolfree and fast assembly



## OPTIMISED BOX DIMENSIONS

- + Flexible assembly of the enclosures with flange plates and heavy-duty industrial plug-in connectors
- + For universal use in different applications



## CUSTOMISED SOLUTIONS

- + Drilling and milling
- + Customised printing
- + Wiring
- + Testing
- + Customised packaging



#### Assembly contact protection module

- Easy and fast assembly
- Tamper-proof
- Possibility to use as small distribution board
- Modular design possible
- Tool-free installation

#### Assembly frame + door

- Easy change of door fixation right/left by turning of the frame incl. door
- Effortless modification at any time with embossing for knocking out in the frame
- Can be processed easily and quickly
- Easy mounting and dismantling – also after installation
- Easy dismantling of the door

#### Frame as basis for accessories

- Flexible use of enclosures
- Separation from equipment and user interface with protection against contact
- Individual internal fit-out, e.g. with mounting plates, modules protected against contact, internal doors
- Installation of serial mounting devices, instruction and detection devices, measuring devices, displays, etc.



### **Cabinet door step**

- It prevents the door from accidental slamming
- Fixation of the open door in two optional positions
- Can easily be mounted at any time

### **Internal lighting (LED)**

- Integrated in the frame
- Easy to mount, pre-fabricated
- Shadow-free lighting of work area

### **Advantages - doors**

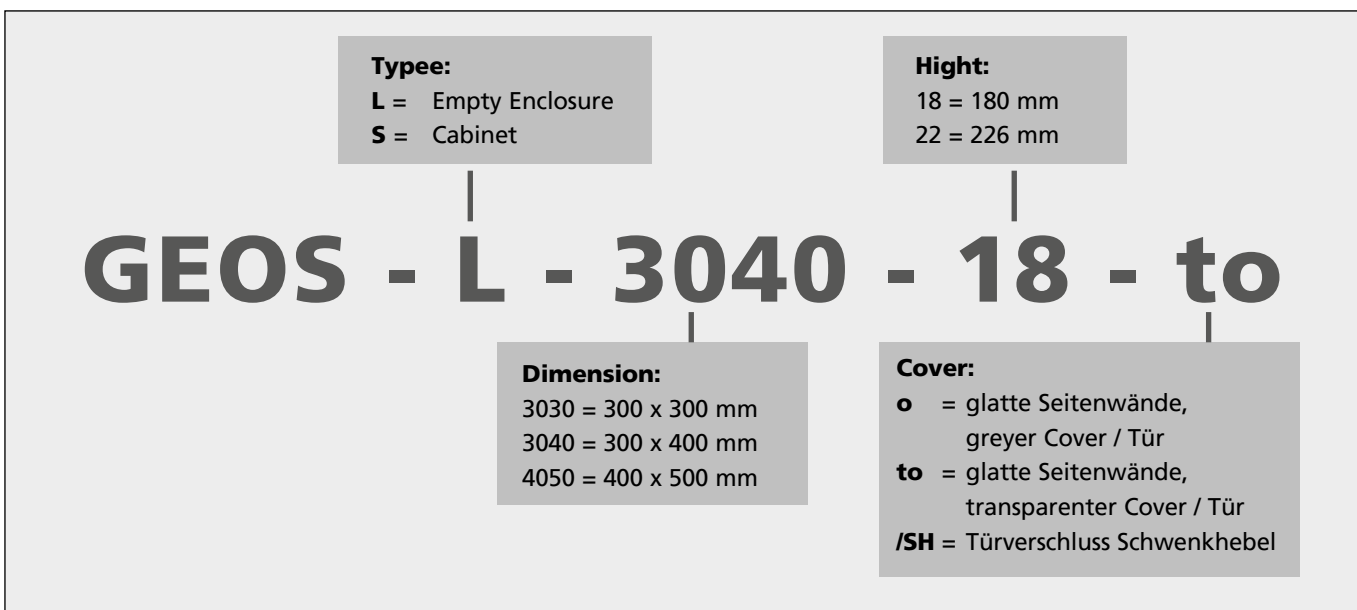
- Can be opened quickly and easily and closed safely
- Good operability of components
- No restrictions for the assembly of internal fittings
- Doors with wide opening angle > 180°
- Access to the interior space with standard locking system (3 mm - two-bit key)
- Alternative locking inserts available as accessories
- Doors are guided by frames to be solid

## GEOS-S CABINETS

 Tür: Grey / Box: Grey		 Tür: Black / Box: Black		 Tür: Transparent / Box: black		 Tür: Transparent / Box: Grey	
Enclosure	Order-No.	Enclosure	Order-No.	Enclosure	Order-No.	Enclosure	Order-No.
GEOS-S 3030-18-o	71043301	GEOS-S 3030-18-o/sw	75043301	GEOS-S 3030-18-to/sw	75143301	GEOS-S 3030-18-to	71143301
GEOS-S 3040-18-o	71043401	GEOS-S 3040-18-o/sw	75043401	GEOS-S 3040-18-to/sw	75143401	GEOS-S 3040-18-to	71143401
GEOS-S 4030-18-o	71044301	GEOS-S 4030-18-o/sw	75044301	GEOS-S 4030-18-to/sw	75144301	GEOS-S 4030-18-to	71144301
GEOS-S 3030-22-o	71073301	GEOS-S 3030-22-o/sw	75073301	GEOS-S 3030-22-to/sw	75173301	GEOS-S 3030-22-to	71173301
GEOS-S 3040-22-o	71073401	GEOS-S 3040-22-o/sw	75073401	GEOS-S 3040-22-to/sw	75173401	GEOS-S 3040-22-to	71173401
GEOS-S 4030-22-o	71074301	GEOS-S 4030-22-o/sw	75074301	GEOS-S 4030-22-to/sw	75174301	GEOS-S 4030-22-to	71174301
GEOS-S 4050-22-o	71074501	GEOS-S 4050-22-o/sw	75074501	GEOS-S 4050-22-to/sw	75174501	GEOS-S 4050-22-to	71174501
GEOS-S 5040-22-o	71075401	GEOS-S 5040-22-o/sw	75075401	GEOS-S 5040-22-to/sw	75175401	GEOS-S 5040-22-to	71175401
GEOS-S 3040-18-o/SH	72043401	GEOS-S 3040-18-o/SH/sw	76043401	GEOS-S 3040-18-to/SH/sw	76143401	GEOS-S 3040-18-to/SH	72143401
GEOS-S 3040-22-o/SH	72073401	GEOS-S 3040-22-o/SH/sw	76073401	GEOS-S 3040-22-to/SH/sw	76173401	GEOS-S 3040-22-to/SH	72173401
GEOS-S 4050-22-o/SH	72074501	GEOS-S 4050-22-o/SH/sw	76074501	GEOS-S 4050-22-to/SH/sw	76174501	GEOS-S 4050-22-to/SH	72174501

## GEOS-L EMPTY ENCLOSURES

 Cover: Grey / Box: Grey		 Cover: Black / Box: Black		 Cover: Transparent / Box: Black		 Cover: Transparent / Box: Grey	
Enclosure	Order-No.	Enclosure	Order-No.	Enclosure	Order-No.	Enclosure	Order-No.
GEOS-L 3030-18-o	700 433 01	GEOS-L 3030-18-o/sw	742 433 01	GEOS-L 3030-18-to/sw	741 433 01	GEOS-L 3030-18-to	701 433 01
GEOS-L 3030-22-o	700 733 01	GEOS-L 3030-22-o/sw	742 733 01	GEOS-L 3030-22-to/sw	741 733 01	GEOS-L 3030-22-to	701 733 01
GEOS-L 3040-18-o	700 434 01	GEOS-L 3040-18-o/sw	742 434 01	GEOS-L 3040-18-to/sw	741 434 01	GEOS-L 3040-18-to	701 434 01
GEOS-L 3040-22-o	700 734 01	GEOS-L 3040-22-o/sw	742 734 01	GEOS-L 3040-22-to/sw	741 734 01	GEOS-L 3040-22-to	701 734 01
GEOS-L 4050-22-o	700 745 01	GEOS-L 4050-22-o/sw	742 745 01	GEOS-L 4050-22-to/sw	741 745 01	GEOS-L 4050-22-to	701 745 01





**Mounting plate**  
Insulating material

Product	Enclosure	Order-No.	Dimensions (mm)
GEOS MPI-3030	GEOS 3030-18/-22	<b>720 003 01</b>	<b>250 x 250 x 5</b>
GEOS MPI-3040	GEOS 3040-18/-22	<b>720 004 01</b>	<b>250 x 350 x 5</b>
GEOS MPI-4050	GEOS 4050-22	<b>720 005 01</b>	<b>350 x 450 x 5</b>

Mounting plate made from insulating material, incl. fixing screws, for bottom mounting



**Mounting plate**  
Stainless steel

Product	Enclosure	Order-No.	Dimensions (mm)
GEOS MPS-3030	GEOS 3030-18 /-22	<b>720 013 01</b>	<b>250 x 250 x 2</b>
GEOS MPS-3040	GEOS 3040-18 /-22	<b>720 014 01</b>	<b>250 x 350 x 2</b>
GEOS MPS-4050	GEOS 4050-22	<b>720 015 01</b>	<b>350 x 450 x 2</b>

Mounting plate made from insulating material, incl. fixing screws, for bottom mounting



**Mounting plate**  
Insulating material

Product	Enclosure	Order-No.	Dimensions (mm)
GEOS-L EP-3030	GEOS-L 3030-18 /-22	<b>721 013 01</b>	<b>276 x 276 x 4</b>
GEOS-L EP-3040	GEOS-L 3040-18 /-22	<b>721 014 01</b>	<b>276 x 376 x 4</b>
GEOS-L EP-4050	GEOS-L 4050-22	<b>721 015 01</b>	<b>376 x 476 x 4</b>

Mounting plate made from insulating material, incl. fixing screws



**Mounting holder 35/7,5**  
Set= 4 pieces

Product	Enclosure	Order-No.
GEOS MH-18	GEOS-L 3030-18 GEOS-L 3040-18	<b>720 022 01</b>
GEOS MH-22	GEOS-L 3030-22 GEOS-L 3040-22 GEOS-L 4050-22	<b>720 023 01</b>

Mounting holder set, for toolless mounting of standard rails 35 x 7.5 mm and mounting plates at various heights, Set = 4 pcs.



**Mounting holder 35/15**  
Set= 4 pieces

Product	Enclosure	Order-No.
GEOS MH-18 NS35/15	GEOS-L-S 3030-18, GEOS-L-S 3040-18, GEOS-S 4030-18	<b>720 024 01</b>
GEOS MH-22 NS35/15	GEOS-L-S 3030-22, GEOS-L-S 3040-22, GEOS-L-S 4050-22, GEOS-S 4030-22, GEOS-S 5040-22	<b>720 025 01</b>

Mounting holder set, for toolless mounting of standard rails 35 x 7.5 mm and mounting plates at various heights, Set = 4 pcs.



**Mounting holder universal**  
Set= 4 pieces

Product	Enclosure	Order-No.
GEOS MHU-18	GEOS-L-S 3030-18, GEOS-L-S 3040-18, GEOS-S 4030-18	<b>720 026 01</b>
GEOS MHU-22	GEOS-L-S 3030-22, GEOS-L-S 3040-22, GEOS-L-S 4050-22, GEOS-S 4030-22, GEOS-S 5040-22	<b>720 027 01</b>

Mounting holder set, for toolless mounting of standard rails 35 x 7.5 mm and mounting plates at various heights, Set = 4 pcs.



**Din Rail**

Product	Enclosure	Length	Order-No.
GEOS NS35-250	GEOS-L-S 3030, 3040, GEOS-S 4030	250 mm	<b>720 031 01</b>
GEOS NS35-350	GEOS-L-S 3040, 4050, GEOS-S 5040	350 mm	<b>720 032 01</b>
GEOS NS35-450	GEOS-L-S 4050, GEOS-S 5040	450 mm	<b>720 033 01</b>
GEOS NS35/15-250	GEOS-L-S 3030, 3040, GEOS-S 4030	250 mm	<b>720 036 01</b>
GEOS NS35/15-350	GEOS-L-S 3040, 4050, GEOS-S 5040	350 mm	<b>720 037 01</b>
GEOS NS35/15-450	GEOS-L-S 4050, GEOS-S 5040	450 mm	<b>720 038 01</b>

Standard rail acc. to DIN EN 60715, 35 x 7.5 mm, incl. fixing screws, for bottom mounting



**Din Rail**

Product	Enclosure	Length	Order-No.
GEOS NS35-327	GEOS-L-S 4050	327 mm	<b>720 034 01</b>
GEOS NS35/15-327	GEOS-L-S 4050	327 mm	<b>720 039 01</b>

Standard rail acc. to DIN EN 60715, 35 x 7.5 mm, incl. fixing screws, for bottom mounting

## ACCESSORIES UNIVERSAL



### Partition wall

Product	Enclosure	TE	Order-No.
GEOS TGS 3040-2	GEOS-S 3040	2x 12	720 062 01
GEOS TGS 4050-3	GEOS-S 4050	3x 18	720 064 01
GEOS TGS 4050-2	GEOS-S 4050	2x 21	720 065 01
GEOS TGS NS35/15 3040-2	GEOS-S 3040	2x 12	720 072 01
GEOS TGS NS35/15 4050-3	GEOS-S 4050	3x 18	720 074 01
GEOS TGS NS35/15 4050-2	GEOS-S 4050	2x 21	720 073 01

Plastic, incl. support

## ACCESSORIES GEOS CABINETS



### Mounting plate interior frame

Product	Enclosure	Order-No.	Dimensions (mm)
GEOS-S EPR 3030	GEOS-S 3030-18 /-22	722 013 01	231 x 231 x 4
GEOS-S EPR 3040/4030	GEOS-S 3040-18 /-22 GEOS-S 4030-18 /-22	722 014 01	231 x 331 x 4
GEOS-S EPR 4050/5040	GEOS-S 4050-22 GEOS-S 5040-22	722 015 01	331 x 431 x 4

Installation panel made of insulating material, incl. fixing screws



### Installation panel transparent Frame Enclosure

Product	Enclosure	Order-No.	Dimensions (mm)
GEOS-S EPR-t 3030	GEOS-S 3030-18 /-22	722 103 01	231 x 231 x 4
GEOS-S EPR-t 3040/4030	GEOS-S 3040-18 /-22 GEOS-S 4030-18 /-22	722 104 01	231 x 331 x 4
GEOS-S EPR-t 4050/5040	GEOS-S 4050-22 GEOS-S 5040-22	722 105 01	331 x 431 x 4

Installation panel made of clear transparent polycarbonate, incl. fixing screws



### Contact protection module switch cabinet

Product	Gehäusetyp	TE	Order-No.
GEOS-S BSM 3030-9	GEOS-S 3030-18/-22	1 x 9	722 083 01
GEOS-S BSM 3030	GEOS-S 3030-18/-22	-----	722 084 01
GEOS-S BSM 3040-9	GEOS-S 3040-18/-22	1 x 9	722 087 01
GEOS-S BSM 3040	GEOS-S 3040-18/-22	-----	722 088 01
GEOS-S BSM 4050-15	GEOS-S 4050-22	1 x 15	722 091 01
GEOS-S BSM 4050-15/MIT	GEOS-S 4050-22	1 x 15	722 092 01
GEOS-S BSM 4050	GEOS-S 4050-22	-----	722 093 01
GEOS-S BSM 3040-9/2 (Set)	GEOS-S 3040-18/-22	2 x 18	722 097 01
GEOS-S BSM 4050-15/3 (Set)	GEOS-S 4050-22	3 x 45	722 098 01

Contact hazard protection modules for tool-free installation in the frame of GEOS control cabinets, material: plastic



### Internal door

Product	Enclosure	Order-No.
GEOS-S IT 3030	GEOS-S 3030	722 003 01
GEOS-S IT 3040	GEOS-S 3040	722 004 01
GEOS-S IT 4030	GEOS-S 4030	722 005 01
GEOS-S IT 4050	GEOS-S 4050	722 006 01
GEOS-S IT 5040	GEOS-S 5040	722 007 01

Interior door made of insulating material, for customised use



### Partition wall cabinet

Product	Enclosure	Order-No.
GEOS-S TW 30-18	GEOS-S 3030-18, GEOS-S 3040-18, GEOS-S 4030-18	722 032 01
GEOS-S TW 30-22	GEOS-S 3030-22, GEOS-S 3040-22, GEOS-S 4030-22	722 033 01
GEOS-S TW 40-18	GEOS-S 3040-18, GEOS-S 4030-18	722 034 01
GEOS-S TW 40-22	GEOS-S 3040-22, GEOS-S 4030-22, GEOS-S 4050-22, GEOS-S 5040-22	722 035 01
GEOS-S TW 50-22	GEOS-S 4050-22, GEOS-S 5040-22	722 036 01

Partition wall aus Insulating material, zur Unterteilung der Gehäuse



### Installation board door

Product	Enclosure	Order-No.	Dimensions (mm)
GEOS-S EPT 3030	GEOS-S 3030-18/-22	722 023 01	150 x 225 x 4
GEOS-S EPT 3040	GEOS-S 4030-18/-22	722 024 01	150 x 325 x 4
GEOS-S EPT 4030	GEOS-S 4030-18/-22	722 025 01	250 x 225 x 4
GEOS-S EPT 4050	GEOS-S 4050-22	722 026 01	250 x 425 x 4
GEOS-S EPT 5040	GEOS-S 5040-22	722 027 01	175 x 325 x 4

Installation board made of insulating material for the door of GEOS cabinets, incl. fixing screws, for individual use, e.g. for installation of indicating elements and displays



### Doorstop

Product	Order-No.
GEOS-S TFS for GEOS-S cabinets	722 070 01

Door stop for fixing the open cabinet door in two possible positions for GEOS-S cabinets



### Screw set

Product	Order-No.
GEOS-S 3030 S for cabinet GEOS-S 3030 as replacement need	722 040 01
GEOS-S 3040/4030 S for cabinet GEOS-S 3040 u. GEOS-S 4030 as replacement need	722 041 01
GEOS-S 4050/5040 S for cabinet GEOS-S 4050 u. GEOS-S 5040 as replacement need	722 042 01



### Quick closing

Product	Order-No.
GEOS-S 3030 SV for cabinet GEOS-S 3030 as replacement need	722 043 01
GEOS-S 3040/4030 SV for cabinet GEOS-S 3040 u. GEOS-S 4030 as replacement need	722 044 01
GEOS-S 4050/5040 SV for cabinet GEOS-S 4050 u. GEOS-S 5040 as replacement need	722 045 01



### Twist lock set

Product	Order-No.
GEOS-S DRS-DB/5 Double-bit 5 mm mandrel	722 051 01
GEOS-S DRS-VK/8 Square 8 mm	722 052 01
GEOS-S DRS-DK/8 Triangle 8 mm	722 053 01
GEOS-S DRS-KB Toggle handle	722 054 01
GEOS-S DRS-SZ Countersunk slot	722 055 01



### Lock fittings for swivel lever

Product	Order-No.
GEOS-S SGA-2 8 x 45° adjustable, with three keys, different locking	722 069 01
GEOS-S SGA-DB/3 Double-bit 3 mm mandrel	722 060 01

## ACCESSORIES GEOS EMPTY ENCLOSURES



**Mounting plate**

Product	Enclosure	Order-No.	Dimensions (mm)
GEOS-L EP-3030	GEOS-L 3030-18 /-22	721 013 01	276 x 276 x 4
GEOS-L EP-3040	GEOS-L 3040-18 /-22	721 014 01	276 x 376 x 4
GEOS-L EP-4050	GEOS-L 4050-22	721 015 01	376 x 476 x 4

Installation board made of insulating material for mounting on the inside of the cover of empty enclosures



**Mounting plate**

Product	Enclosure	Order-No.	Dimensions (mm)
GEOS-L EPD-3030	GEOS-L 3030-18 /-22	721 016 01	276 x 276 x 4
GEOS-L EPD-3040	GEOS-L 3040-18 /-22	721 017 01	276 x 376 x 4
GEOS-L EPD-4050	GEOS-L 4050-22	721 018 01	376 x 476 x 4

Installation board made of insulating material for mounting on the inside of the cover of empty enclosures



**Partition wall**

Product	Enclosure side	Enclosure	Order-No.
GEOS-L TW 30-18	300 mm	GEOS-L 3030-18 GEOS-L 3040-18	721 032 01
GEOS-L TW 30-22	300 mm	GEOS-L 3030-22 GEOS-L 3040-22	721 033 01
GEOS-L TW 40-18	400 mm	GEOS-L 3040-18	721 034 01
GEOS-L TW 40-22	400 mm	GEOS-L 3040-22 GEOS-L 4050-22	721 035 01
GEOS-L TW 50-22	500 mm	GEOS-L 4050-22	721 036 01



**Shock protection**

Product	Enclosure side	TE	Order-No.
GEOS-L BSA 3030-1	300 mm	1 x 12	721 051 01
GEOS-L BSA 3040-2	300 mm	2 x 12	721 052 01
GEOS-L BSA 3040-1	400 mm	1 x 18	721 053 01
GEOS-L BSA 4050-3	400 mm	3 x 18	721 054 01
GEOS-L BSA 4050-2	500 mm	2 x 21	721 055 01

Protective cover for rail-mounted devices



**Cover screw set**

Product	Enclosure	Order-No.
GEOS-L DS	GEOS-L 3030/3040	721 040 01
GEOS-L 4050 DS	GEOS-L 4050	721 041 01

As replacement need



**Quick closing**

Product	Enclosure	Order-No.
GEOS-L SV	GEOS-L 3030/3040	721 042 01
GEOS-L 4050 SV	GEOS-L 4050	721 043 01

As replacement need



**Cover screw set**

Product	Enclosure	Order-No.
GEOS-L DS/DK	GEOS-L 3030/3040	721 044 01
GEOS-L 4050 DS/DK	GEOS-L 4050	721 045 01

As replacement need



**Cover retainer**

Product	Order-No.
GEOS-L DVS	Set = 2 pieces 721 037 01

As replacement need



### Mounting holder set

Product	Enclosure	Order-No.
GEOS-L MHH-18	GEOS-L 3030-18, GEOS-L 3040-18	<b>721 022 01</b>
GEOS-L MHH-22	GEOS-L 3030-22, GEOS-L 3040-22 GEOS-L 4050-22	<b>721 023 01</b>

Mounting holder set, for tool-free mounting of standard rails 35 x 15 mm and mounting plates at various heights, set = 4 pieces

## ACCESSORIES GEOS FASTENING MATERIAL



### External fixing lug

Product	Wall distance	Order-No.
GEOS ABL-10	10 mm	<b>720 020 01</b>
GEOS ABL-40	40 mm	<b>720 021 01</b>



### Screw clamp set

Product	for mast diameters from	Order-No.
SRS 60-90	60 - 90 mm	<b>720 040 01</b>
SRS 90-150	90 - 150 mm	<b>720 041 01</b>
SRS 150-210	150 - 210 mm	<b>720 042 01</b>



### Mast clamp set

Product	Enclosure side	Order-No.
GEOS MSS-30	300 mm	<b>720 050 01</b>
GEOS MSS-40	400 mm	<b>720 051 01</b>
GEOS MSS-50	500 mm	<b>720 052 01</b>



### Design plate


Product	Dimensions (mm)	Enclosure	Order-No.
GEOS DP-3030	293 x 293 x 2 mm	GEOS 3030-18/-22	720 130 01
GEOS DP-3040	293 x 393 x 2 mm	GEOS 3040-18/-22	720 131 01
GEOS DP-4050	393 x 493 x 2 mm	GEOS 4050-22	720 132 01



### External fixing lug


Product	Order-No.
GEOS ABL-10/ES	Wall distance 10 mm <b>720 075 01</b>
GEOS ABL-40/ES	Wall distance 40 mm <b>720 076 01</b>

## ACCESSORIES GEOS GENERAL




Cable gland			
Product	Thread length/ mm	Sealing range mm	Order-No.
KVR M12 LG - MGM	12	2 - 6,5	229 412 01
KVR M16 LG - MGM	12	4 - 10,0	229 416 01
KVR M20 LG - MGM	15	6 - 12,0	229 420 01
KVR M25 LG - MGM	15	9 - 16,0	229 425 01
KVR M32 LG - MGM	15	11 - 21,0	229 432 01
KVR M40 LG - MGM	15	16 - 28,0	229 440 01
KVR M50 LG - MGM	18	21 - 34,5	229 450 01
KVR M63 - MGM	17	30 - 44,5	227 463 01

Cable gland with strain relief, long connection thread, M\_ x 1.5 mm, with lock nut, polyamide, grey




Cable gland			
Product	Thread length/ mm	Sealing range/ mm	Order-No.
KVR M12 LG - MGM/sw	12	2 - 6,5	229 012 01
KVR M16 LG - MGM/sw	12	4 - 10,0	229 016 01
KVR M20 LG - MGM/sw	15	6 - 12,0	229 020 01
KVR M25 LG - MGM/sw	15	9 - 16,0	229 025 01
KVR M32 LG - MGM/sw	15	11 - 21,0	229 032 01
KVR M40 LG - MGM/sw	15	16 - 28,0	229 040 01
KVR M50 LG - MGM/sw	18	21 - 34,5	229 050 01

Cable gland with strain relief, long connection thread, M\_ x 1.5 mm, with lock nut, polyamide, black




Ventilation element set	
Product	Order-No.
BEL Air M40/sw	263 040 01
BEL Air M40/gr	263 540 01



Lock nut		
Product	Thread length / mm	Order-No.
GMU PA M12	M12 x 1,5	208 412 01
GMU PA M16	M16 x 1,5	208 416 01
GMU PA M20	M20 x 1,5	208 420 01
GMU PA M25	M25 x 1,5	208 425 01
GMU PA M32	M32 x 1,5	208 432 01
GMU PA M40	M40 x 1,5	208 440 01
GMU PA M50	M50 x 1,5	208 450 01
GMU PA M63	M63 x 1,5	208 463 01

Lock nut for metric twist nipple and cable glands, polyamide



AK3 KS M50	
Product	Order-No.
AK3 KS M50	733 830 01



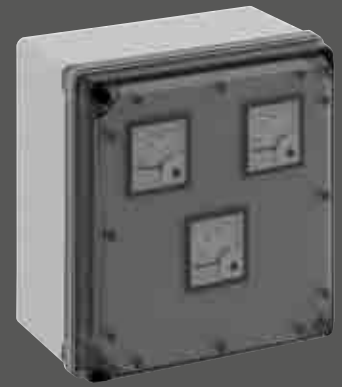
## Configure GEOS control cabinets and enclosures as required

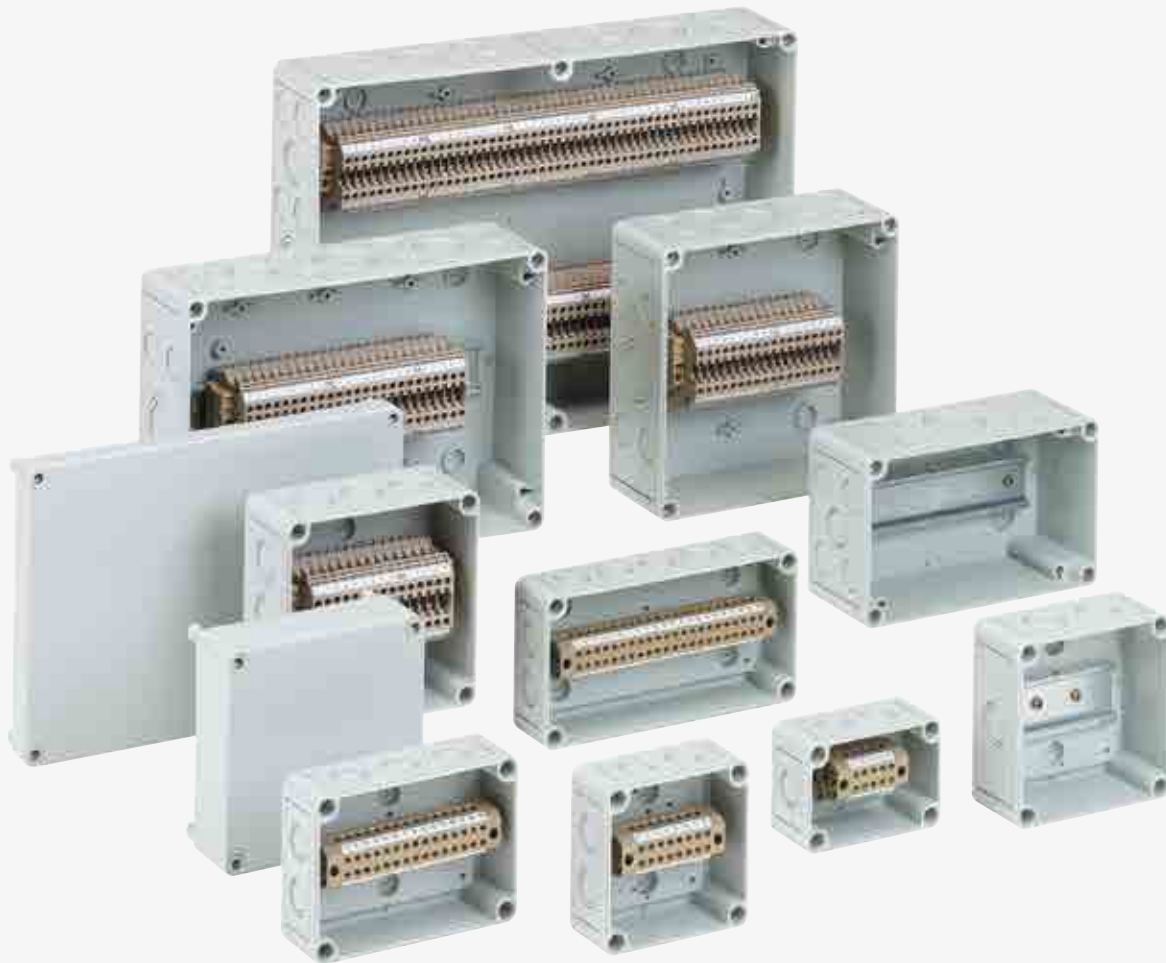
- Simple planning and assembly of empty enclosures and enclosures.
- Configure customised solutions easily online.
- Customisation also possible with drill holes or milled cut-outs.
- Simply register free of charge at on our website at [mySpelsberg](#). You can then easily save, load and manage your configuration at:
- Easy access to
  - Dimension and data sheets
  - Certificates & assembly instructions
  - Price information
  - Documentation of the configured solution





**In application** | GEOS





Empty or assembled, compact design or with plenty of space with up to 136 terminals. RK terminal block housings offer plenty of room for multiple solutions.

All Terminal block housing can be supplied in polycarbonate.

Special solutions on request!



#### Attachment bushes

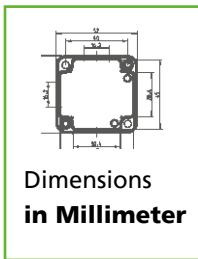
Product	Sealing area/ mm	Order-No.
AST M16	6 - 10	230 416 01
AST M20	8 - 13,5	230 420 01
AST M25	9 - 18,5	230 425 01
AST M32	13 - 23	230 432 01
AST M40	17 - 30	230 440 01



## Terminal block housings |



**RKKi**

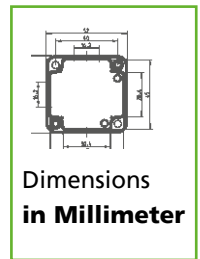


**Dimensions  
in Millimeter**

Enclosure	Order-No.	
RKKi 4/05-5x4 <sup>2</sup>	<b>635 404 01</b>	94 x 65 x 57
RKKi 4/07-7x4 <sup>2</sup>	<b>630 407 01</b>	94 x 94 x 57
RKKi 4/08-8x4 <sup>2</sup>	<b>636 404 01</b>	94 x 94 x 57
RKKi 4/10-10x4 <sup>2</sup>	<b>637 404 01</b>	94 x 94 x 57
RKKi 4/12-12x4 <sup>2</sup>	<b>630 404 01</b>	110 x 110 x 57
RKKi 4/12 XL-12x4 <sup>2</sup>	<b>630 412 01</b>	130 x 94 x 57
RKKi 4/15-15x4 <sup>2</sup>	<b>632 404 01</b>	130 x 94 x 57
RKKi 4/18-18x4 <sup>2</sup>	<b>630 418 01</b>	180 x 94 x 57
RKKi 4/22-22x4 <sup>2</sup>	<b>634 404 01</b>	180 x 94 x 57




**RKi**



**Dimensions  
in Millimeter**

Enclosure	Order-No.	
RKi 4/07-L	<b>639 907 01</b>	110 x 110 x 90
RKi 4/07-7x4 <sup>2</sup>	<b>635 007 01</b>	110 x 110 x 90
RKi 4/07 SL-7x4 <sup>2</sup>	<b>630 007 01</b>	110 x 110 x 90
RKi 4/12-L	<b>633 906 01</b>	130 x 130 x 75
RKi 4/12-12x4 <sup>2</sup>	<b>635 012 01</b>	130 x 130 x 75
RKi 4/12 SL-12x4 <sup>2</sup>	<b>630 012 01</b>	130 x 130 x 75
RKi 4/18 K-L	<b>635 912 01</b>	180 x 110 x 90
RKi 4/18 KSL-18x4 <sup>2</sup>	<b>630 018 01</b>	180 x 110 x 90
RKi 4/18 K-18x4 <sup>2</sup>	<b>635 018 01</b>	180 x 110 x 90
RKi 4/18-L	<b>636 912 01</b>	182 x 180 x 90
RKi 4/18-18x4 <sup>2</sup>	<b>635 019 01</b>	182 x 180 x 90
RKi 4/18 SL-18x4 <sup>2</sup>	<b>630 019 01</b>	182 x 180 x 90
RKi 4/25-L	<b>635 916 01</b>	254 x 180 x 90
RKi 4/25-25x4 <sup>2</sup>	<b>635 025 01</b>	254 x 180 x 90
RKi 4/25 SL-25x4 <sup>2</sup>	<b>630 025 01</b>	254 x 180 x 90
RKi 4/34-L	<b>635 917 01</b>	254 x 180 x 90
RKi 4/34-34x4 <sup>2</sup>	<b>635 034 01</b>	254 x 180 x 90
RKi 4/34 SL-34x4 <sup>2</sup>	<b>630 034 01</b>	254 x 180 x 90
RKi 4/50-L	<b>636 950 01</b>	360 x 254 x 111
RKi 4/50-50x4 <sup>2</sup>	<b>635 050 01</b>	360 x 254 x 111
RKi 4/50 SL-50x4 <sup>2</sup>	<b>630 050 01</b>	360 x 254 x 111
RKi 4/100-L	<b>636 922 01</b>	360 x 254 x 111
RKi 4/100-100x4 <sup>2</sup>	<b>635 100 01</b>	360 x 254 x 111
RKi 4/100 SL-100x4 <sup>2</sup>	<b>630 100 01</b>	360 x 254 x 111



**Cable gland**

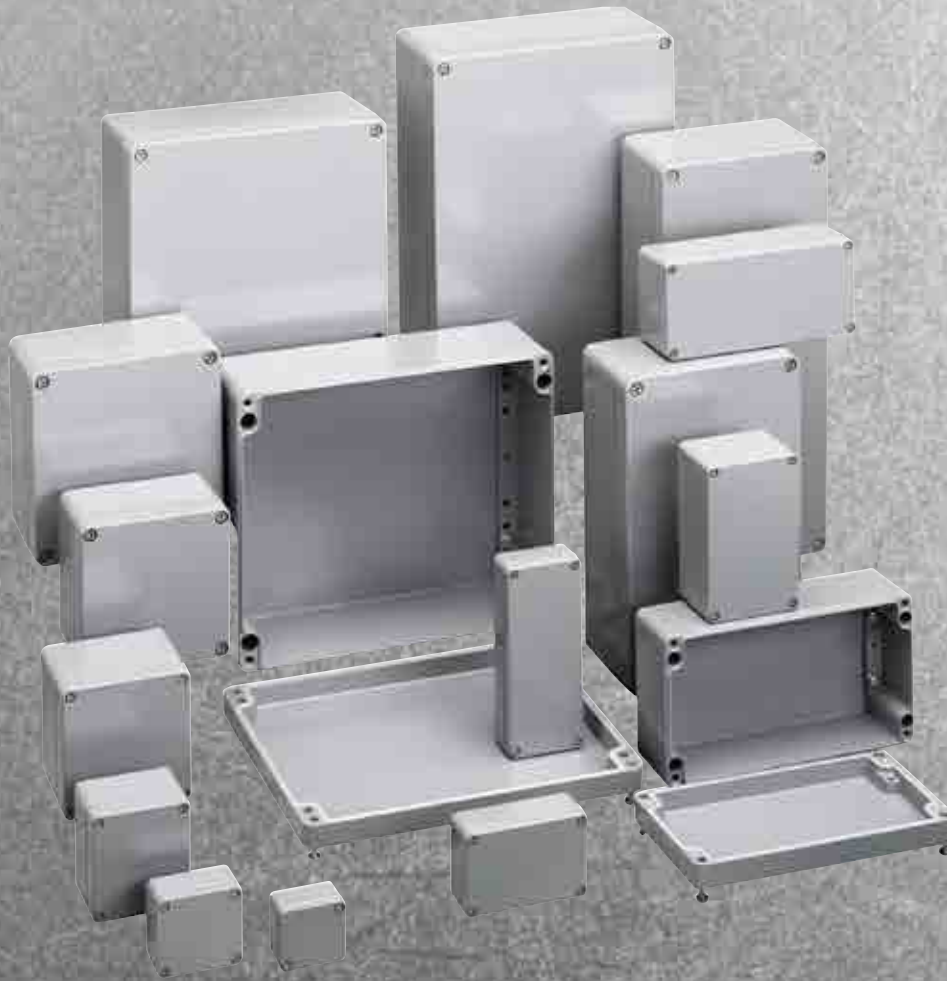
Product	Thread length/ mm	Sealing area/ mm	Order-No.
KVR M12-MGM	8	<b>2 - 6,5</b>	<b>227 412 01</b>
KVR M16-MGM	8	<b>4 - 10,0</b>	<b>227 416 01</b>
KVR M20-MGM	9	<b>6 - 12,0</b>	<b>227 420 01</b>
KVR M20-GDB/MGM	9	<b>7 - 14,0</b>	<b>227 421 01</b>
KVR M25-MGM	11	<b>9 - 16,0</b>	<b>227 425 01</b>
KVR M32-MGM	11	<b>11 - 21,0</b>	<b>227 432 01</b>
KVR M40-MGM	11	<b>16 - 28,0</b>	<b>227 440 01</b>
KVR M50-MGM	13	<b>21 - 34,5</b>	<b>227 450 01</b>
KVR M63-MGM	17	<b>30 - 44,5</b>	<b>227 463 01</b>

Cable gland, IP68/IP69\*, with strain relief, polyamide, M<sub>x</sub> x 1.5 mm, with locknut, grey



**Double-membrane seals**

Product	Sealing area/ mm	Order-No.
DMS M16	<b>5 - 9</b>	<b>260 416 01</b>
DMS M20	<b>7 - 13</b>	<b>260 420 01</b>
DMS M25	<b>9 - 17</b>	<b>260 425 01</b>
DMS M32	<b>13 - 21</b>	<b>260 432 01</b>
DMS M40	<b>17 - 28</b>	<b>260 440 01</b>



- 16 standard enclosure sizes up to 330 x 230 mm
- With powder coating to prevent corrosion
- Colour: silver grey, similar to RAL 7001

- Material: Aluminium
- Effective protection against electromagnetic interference (EMI) and electrostatic discharges (ESD)

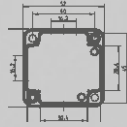
- An even higher level of protection can be achieved by using conductive sealings (available on request) between the components of the enclosure
- High level of chemical resistance
- Special solutions on request!



## Empty enclosures | AL



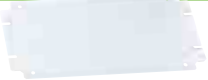
**AL**



**Dimensions  
in Millimeter**


Enclosure	Order-No.	
AL 55-3	<b>150 001 01</b>	50 x 45 x 30
AL 66-3	<b>150 002 01</b>	64 x 58 x 34
AL 88-6	<b>150 005 01</b>	80 x 75 x 57
AL 1006-3	<b>150 003 01</b>	90 x 64 x 34
AL 1010-8	<b>150 008 01</b>	100 x 100 x 81
AL 1212-8	<b>150 009 01</b>	122 x 120 x 81
AL 1308-6	<b>150 006 01</b>	125 x 80 x 57
AL 1506-3	<b>150 004 01</b>	150 x 64 x 34
AL 1616-9	<b>150 011 01</b>	160 x 160 x 91
AL 1808-6	<b>150 007 01</b>	175 x 80 x 57
AL 2212-8	<b>150 010 01</b>	220 x 120 x 81
AL 2320-11	<b>150 014 01</b>	230 x 200 x 111
AL 2616-9	<b>150 012 01</b>	260 x 160 x 91
AL 2823-11	<b>150 015 01</b>	280 x 230 x 111
AL 3323-11	<b>150 016 01</b>	330 x 230 x 111
AL 3616-9	<b>150 013 01</b>	360 x 160 x 90





**Mounting plate**  
Stainless steel


Product	Enclosure	Order-No.	Dimensions (mm)
AL MPS-88	AL 88	<b>155 005 01</b>	<b>64 x 69 x 1,5</b>
AL MPS-1010	AL 1010	<b>155 008 01</b>	<b>88 x 88 x 1,5</b>
AL MPS-1212	AL 1212	<b>155 009 01</b>	<b>107 x 109 x 1,5</b>
AL MPS-1308	AL 1308	<b>155 006 01</b>	<b>69 x 114 x 1,5</b>
AL MPS-1616	AL 1616	<b>155 011 01</b>	<b>143 x 145 x 1,5</b>
AL MPS-1808	AL 1808	<b>155 007 01</b>	<b>69 x 164 x 1,5</b>
AL MPS-2212	AL 2212	<b>155 010 01</b>	<b>107 x 207 x 1,5</b>
AL MPS-2330	AL 2320	<b>155 014 01</b>	<b>184 x 213 x 1,5</b>
AL MPS-2616	AL 2616	<b>155 012 01</b>	<b>143 x 244 x 1,5</b>
AL MPS-2823	AL 2823	<b>155 015 01</b>	<b>214 x 264 x 1,5</b>
AL MPS-3323	AL 3323	<b>155 016 01</b>	<b>213 x 314 x 1,5</b>
AL MPS-3616	AL 3616	<b>155 013 01</b>	<b>143 x 345 x 1,5</b>



**External hinge set**

Product	Enclosure	Order-No.
AL ASS	AL/ALR 1010, 1212, 1616, 2212, 2320, 2616, 2823, 3323, 3616 ALS 1515, 2011, 2020, 2720, 2927	<b>154 210 01</b>


For retrofitting the enclosure cover to hinged door. Incl. 2 hinges, fixing screws, masking-off strips and drilling template



**Pressure balance element**

Product	Dimensions	Order-No.
DAE M12	18,5 x 17,6 x 18,5 mm	<b>262 412 01</b>

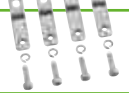
Pressure compensation device with air-permeable and waterproof special membrane foil to prevent condensation in enclosures, flow rate 0.8l/min. at 0.1 bar overpressure, polyamide, grey



**Din Rail NS 35**


Product	Enclosure	Length	Order-No.
AL NS 35-110	AL 1212	110 mm	<b>162 009 01</b>
AL NS 35-145	AL 1616	145 mm	<b>162 011 01</b>
AL NS 35-186	AL 2320	186 mm	<b>162 014 01</b>
AL NS 35-208	AL 2212	208 mm	<b>162 010 01</b>
AL NS 35-245	AL 1616	245 mm	<b>162 012 01</b>
AL NS 35-266	AL 2823	266 mm	<b>162 015 01</b>
AL NS 35-316	AL 3323	316 mm	<b>162 016 01</b>
AL NS 35-345	AL 3616	345 mm	<b>162 013 01</b>

Din Rail nach DIN EN 60715, 35 x 7,5, 35 mm breit



**External hinges**

Product	Enclosure	Order-No.
AL ALS-kl	AL/ALR 88, 1006, 1010, 1308, 1506, 1808	<b>154 004 01</b>
AL ALS-gr	AL/ALR 1212, 1616, 2212, 2320, 2616, 2823, 3323, 3616	<b>154 006 01</b>

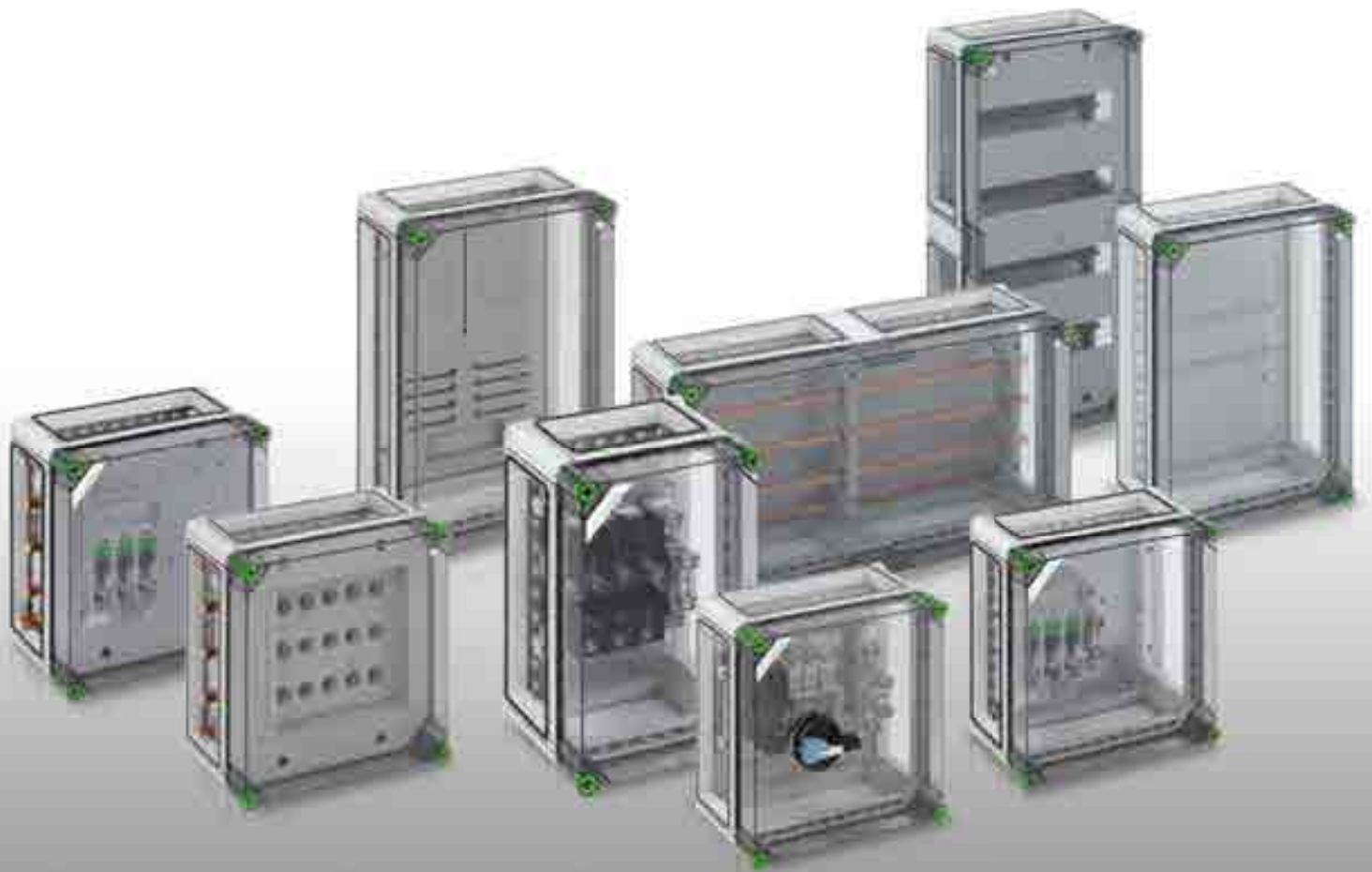


**Cable gland**

Product	Thread length/mm	Sealing area/mm./	Order-No.
KVR M12	8	2 - 6,5	<b>247 412 01</b>
KVR M16	8	4 - 10,0	<b>247 416 01</b>
KVR M20	9	6 - 12,0	<b>247 420 01</b>
KVR M20-GDB	9	7 - 14,0	<b>247 421 01</b>
KVR M25	11	9 - 16	<b>247 425 01</b>
KVR M32	11	11 - 21,0	<b>247 432 01</b>
KVR M40	11	16 - 28,0	<b>247 440 01</b>
KVR M50	13	21 - 34,5	<b>247 450 01</b>
KVR M63	17	30 - 44,5	<b>247 463 01</b>

Cable gland, IP68/IP69\*, with strain relief, polyamide, M\_ x 1.5 mm, without locknut, grey

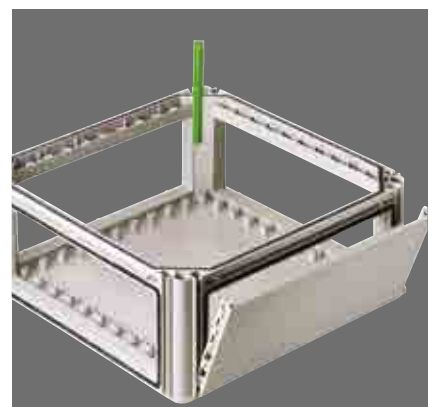









































- 5 enclosure sizes with
- 3 cover variants and Add-on frame
- Open enclosure sides
- Integrated seals
- Tool-free enclosure assembly system
- Interchangeable flanges
- High-quality enclosure materials
- Partially equipped enclosures with high-quality brand switchgear
- Sealable enclosure cover +
- Contact hazard protection
- Can be combined variably
- No knock-out of side panels
- No additional sealing material required
- Quick assembly with enclosure connectors supplied
- Numerous variants available
- UV- and weather-resistant
- Support and spare parts supply is guaranteed
- Meets the requirements of numerous network operators
- Flexible use of enclosures for a wide range of applications
- Simple wiring option



## Iso Switchgear | GTi

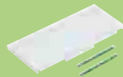


Empty enclosure		Distribution board		Distribution board		Meter housing		Empty enclosure for switchgear		Circuit breaker enclosure		NH fuse enclosure								
IP 65		IP 65		IP 65		IP 65		IP 65		IP 65		IP 65								
<b>GTI 1</b> 320 x 220 x 179		010_01 01	<b>GTA 114</b> 1 x 14 TE 320 x 220 x 179		015 114 01	<b>GTI 2 VS</b> 320 x 320 x 179		020 002 01	<b>GTZ 3</b> 320 x 440 x 179		020 003 01	<b>GTE 106</b> 63 A 320 x 220 x 179		032 106 01	<b>GLE 416</b> 160 A 320 x 640 x 254		036 416 01	<b>GTS 101</b> 1 x NH00 220 x 320 x 179		022 101 01
<b>GTI 2</b> 320 x 320 x 179		010_02 01	<b>GTA 228</b> 2 x 14 TE 320 x 320 x 179		015 228 01	<b>GTI 2 VS-K</b> 320 x 320 x 179		021 002 01	<b>GTZ 4</b> 320 x 640 x 179		020 004 01	<b>GTE 210</b> 100 A 320 x 320 x 179		032 210 01	<b>GLE 425</b> 250 A 320 x 640 x 254		036 425 01	<b>GTS 201</b> 1 x NH00 320 x 320 x 179		022 201 01
<b>GTI 3</b> 320 x 440 x 179		010_03 01	<b>GTA 342</b> 3 x 14 TE 320 x 440 x 179		015 342 01	<b>GSI 2 VS-K</b> 320 x 320 x 254		021 352 01	<b>GTZ 21</b> 320 x 320 x 179		020 201 01	<b>GTE 216</b> 160 A 320 x 320 x 179		032 216 01	<b>GLE 440</b> 400 A 320 x 640 x 254		036 440 01	<b>GTS 202</b> 2 x NH00 320 x 320 x 179		022 202 01
<b>GTI 4</b> 320 x 640 x 179		010_04 01	<b>GTA 456-H-t</b> 4 x 14 TE 320 x 640 x 179		015 456 01	Lightning protection enclosure IP 65						<b>GTE 425</b> 250 A 320 x 640 x 179		032 425 01	<b>GLE 463</b> 630 A 320 x 640 x 254		036 463 01	<b>GTS 411</b> 1 x NH1 320 x 640 x 179		022 411 01
<b>GTI 5</b> 440 x 640 x 179		010_05 01	<b>GTA 580</b> 4 x 20 TE 440 x 640 x 179		015 580 01	<b>GBZ 252-40</b> 320 x 179 x 320		010 095 01				<b>GTE 440</b> 400 A 320 x 640 x 179		032 440 01				<b>GTS 421</b> 1 x NH2 320 x 640 x 179		022 421 01
<b>Cover</b>	<b>Order no. Extension</b>	<b>GTA 456-Q-t</b> 4 x 14 TE 320 x 640 x 179		014 456 01	<b>GSI 252-40</b> 320 x 320 x 179		040 252 01					<b>GTE 463</b> 630 A 320 x 640 x 179		032 463 01						
grey	4																			
transparent	0																			
<b>GTI 2-KT-t</b> 320 x 320 x 179		011 002 01	<b>GTA 228-KT-t</b> 2 x 14 TE 320 x 320 x 179 mm		016 228 01															
<b>GTI 3-KT-t</b> 320 x 440 x 179		011 003 01	<b>GTA 342-KT-t</b> 3 x 14 TE 320 x 440 x 179		016 342 01															

### Flange with metric knockouts

2 x flange connectors (GFV)

Type	Enclosure side	Pre-stamped	Order-No.:
<b>GFL 211</b>	220 mm	3 x M32/M25, 2 x M20	072 211 01
<b>GFL 221</b>	220 mm	1 x M50/M40, 4 x M25/M20	072 221 01
<b>GFL 231</b>	220 mm	2 x M50	072 231 01
<b>GFL 321</b>	320 mm	3 x M50/M40, 4 x M16	072 321 01
<b>GFL 331</b>	320 mm	17 x M20/M16	072 331 01
<b>GFL 341</b>	320 mm	1 x M50/M40, 2 x M32/M25, 4 x M25/M20	072 341 01
<b>GFL 351</b>	320 mm	12 x M25/M20	072 351 01
<b>GFL 361</b>	320 mm	4 x M40/M32, 3 x M20	072 361 01
<b>GFL 371</b>	320 mm	5 x M40/M32/M25	072 371 01
<b>GFL 411</b>	440 mm	1 x M40/M32, 16 x M25/M20	072 411 01
<b>GFL 421</b>	440 mm	1 x M50/M40, 2 x M40/M32, 8 x M25/M20	072 421 01



### Flange, Smooth

2 x flange connectors (GFV)

Type	Enclosure side	Order-No.:
<b>GFL 20</b>	220 mm	072 200 01
<b>GFL 30</b>	320 mm	072 300 01
<b>GFL 40</b>	440 mm	072 400 01



### Flange „metric“ equipped, 2 x flange connectors (GFV)

equipped with 42 x DMS M16

Type	Entries	Order-No.:
<b>GFL 390-m</b>	42 x DMS M16	072 390 01
<b>GFL 391-m</b>	27 x DMS M20	072 391 01
<b>GFL 392-m</b>	23 x DMS M25	072 392 01
<b>GFL 393-m</b>	12 x DMS M32	072 393 01
<b>GFL 394-m</b>	30 x KVR M16 (unequipped)	072 394 01



### Cable/Strain

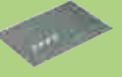
Cable entry for cables up to Ø 75 mm, with strain relief for 1 cable, 2 x flange connectors (GFV)

Type	Enclosure side	Pre-stamped	Order-No.:
<b>GKZ 321</b>	320 mm	for 2 cables	073 321 01
<b>GKZ 431</b>	440 mm	for 3 cables	073 431 01
<b>GKZ 75</b>		Cable strain relief for GKZ 3 / GKZ 4	073 075 01



### Mounting plate, galvanized steel plate with mounting kit

Type	Enclosure size	Dimensions in mm	Order-No.:
<b>GMS 1</b>	1	260 x 160 x 2	071 001 01
<b>GMS 2</b>	2	260 x 260 x 2	071 002 01
<b>GMS 3</b>	3	380 x 260 x 2	071 003 01
<b>GMS 4</b>	4	580 x 260 x 2	071 004 01
<b>GMS 5</b>	5	580 x 380 x 2	071 005 01



### Montageplatten - melamine-clad insulating material, with mounting kit

Type	Enclosure size	Dimensions in mm	Order-No.:
<b>GMI 1</b>	1	260 x 160 x 5	071 011 01
<b>GMI 2</b>	2	260 x 260 x 5	071 012 01
<b>GMI 3</b>	3	380 x 260 x 5	071 013 01
<b>GMI 4</b>	4	580 x 260 x 5	071 014 01
<b>GMI 5</b>	5	580 x 380 x 5	071 015 01



### Weather protection cover,

for GTI enclosure, Can be modularly combined, to prevent stress for the enclosure due to rain, snow, and similar environmental hazards

Type	Order-No.:
<b>GFW 20</b>	220 mm, incl. milled flange GFL
<b>GFW 30</b>	320 mm, incl. milled flange GFL
<b>GFW 40</b>	440 mm, incl. milled flange GFL
<b>GFW 20-n</b>	220 mm, for retrofitting to existing GFL flange incl. drilling template
<b>GFW 30-n</b>	320 mm, for retrofitting on existing GFL flange incl. drilling template
<b>GFW 40-n</b>	440 mm, for retrofitting on existing GFL flange incl. drilling template



NH fuse enclosure	Busbar enclosure	NH fuse enclosure	NH fuse enclosure	NEOZED® fused enclosure	Socket enclosure																																																			
IP 65	IP 65	IP 65	IP 65	IP 65	IP 44																																																			
<b>GTT 101</b> 1 x NH 00 220 x 320 x 179	<b>GSI 253</b> 250 A 320 x 320 x 179	<b>GST 2315-X</b> 320 x 320 x 179	<b>GST 2015-X</b> 1 x NH 00 320 x 320 x 179	<b>GSN 225-X</b> 225-KT-250 320 x 320 x 179 5 x D02 3pl	<b>GTV 470</b> 320 x 220 x 179																																																			
<b>GTT 201</b> 1 x NH 00 320 x 320 x 179	<b>GSI 453</b> 250 A 640 x 320 x 179	<b>GST 2325-X</b> 320 x 320 x 179	<b>GST 2025-X</b> 2 x NH 00 320 x 320 x 179	<b>GSN 4210-X</b> 640 x 320 x 179 10 x D02 3pl	<b>GTV 480, 481, 482</b> 320 x 220 x 179																																																			
<b>GTT 202</b> 2 x NH 00 320 x 320 x 179	<b>GSI 254</b> 400 A 320 x 320 x 179	<b>GST 2335-X</b> 320 x 320 x 179	<b>GST 4025-X</b> 2 x NH 00 640 x 320 x 179	<b>GST 401 KN-X</b> 640 x 320 x 179 1 x NH 00 5 x D02 3pl	<b>GTV 487, 488, 489</b> 320 x 220 x 179																																																			
<b>GTT 411</b> 1 x NH 1 320 x 640 x 179	<b>GSI 454</b> 400 A 640 x 320 x 179	<b>GST 4325-X</b> 640 x 320 x 179	<b>GST 4035-X</b> 3 x NH 00 640 x 320 x 179	<b>GST 402 KN-X</b> 640 x 320 x 179 2 x NH 00 5 x D02 3pl	<b>GTV 490, 491, 492</b> 320 x 220 x 179																																																			
<b>GTT 421</b> 1 x NH 2 320 x 640 x 179	<b>GSI 256</b> 630 A 320 x 320 x 179	<b>GST 4345-X</b> 640 x 320 x 179	<b>GST 4045-X</b> 4 x NH 00 640 x 320 x 179	<table border="1"> <thead> <tr> <th>Current strength</th> <th>Order no. Extension</th> </tr> </thead> <tbody> <tr> <td>250</td> <td>01</td> </tr> <tr> <td>400</td> <td>84</td> </tr> <tr> <td>630</td> <td>86</td> </tr> </tbody> </table>	Current strength	Order no. Extension	250	01	400	84	630	86	<b>GSF 270</b> 220 mm																																											
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### GTi ISO switchgears up to 1.250 A

Requirements for electrical switchgear for buildings are changing - and so are our GTi series distribution boards and switchgear. The open enclosures can be quickly assembled and flexibly extended without the need to knock out side panels. GTi offers plenty of scope for the production of new and customisation of existing systems.

- Fast, cost-effective assembly
- High flexibility
- Solid cover screws with quick thread
- 5 enclosure sizes
- Enclosure connectors are included free of charge
- 3 cover Types in
  - grey similar to RAL 7035
  - transparent
  - transparent as hinged door variant
- Attachment frame available for every enclosure size



**In application** | GTi



**GTi Plus. A plus in performance.**

- 40% more connection space
- High flexibility of the centralised and decentralised energy supply
- Quick installation
- Extremely stable

Components of the GTi Plus series:

- GTA** Distribution board
- GSi** Lightning protection enclosure
- GST** NH fuse enclosure
- GSS** NH protection switch
- GSD** DIAZED® fuse enclosure
- GSN** NEOZED® fuse enclosure

**GTi** Plus





- **STV-L** - Empty, without assembly but with PE/N terminal
- **STV-S** - With built-in CEE and Schuko® socket outlets, pre-wired, incl. PE/N terminal
- **STV-K** - Ready for connection, with built-in CEE and Schuko® sockets, equipped e.g. with FI and LS switches, complete wired
- **STG** - Ready for connection, with built-in CEE and Schuko® sockets, wired ready for connection
- **High mechanical load capacity**
- **Insensitive to temperature**
- **Compact dimensions**
- **Use of quality sockets**
- **Combinable**
- The housings are also available with AKi compact. Small distributors can be combined horizontally.
- The special break-out contour enables the installation of additional components, such as switch-disconnectors.

IP44





IK08









400V  
AC



## Socket distribution boxes | STV

STG Socket enclosure		ready for connection	
	SCHUKO® Socket outlet 16 A		
	Equipment	4	
	Type	STG 004	
	Order-No.:	732 204 01	
Dimensions (mm)	125x200x122		
	ready for connection		
SCHUKO® Socket outlet 16 A CEE Socket outlet 16 A	2	1	
Equipment	2	1	
Type	STG 012		
Order-No.:	732 212 01		
Dimensions (mm)	125x200x122		
	ready for connection		
SCHUKO® Socket outlet 16 A			
Equipment	8		
Type	STG 008		
Order-No.:	732 208 01		
Dimensions (mm)	250x200x122		
	ready for connection		
SCHUKO® Socket outlet 16 A CEE Socket outlet 16 A	4	2	
Equipment	4	2	
Type	STG 024		
Order-No.:	732 224 01		
Dimensions (mm)	250x200x122		

STV Socket distributor		pre-wired		
	SCHUKO® Socket outlet 16 A			
	Equipment	2		
	Type	STV 502-S		
	Order-No.:	728 302 01		
Dimensions (mm)	125 x 200 x 122			
	ready for connection			
SCHUKO® Socket outlet 16 A LS-switch B 16 A, 1p FI-switch 25 A, 2p, 0.03 A	2	2	1	
Equipment	2	2	1	
Type	STV 502-K			
Order-No.:	728 402 01			
Dimensions (mm)	125 x 200 x 122			
	pre-wired			
SCHUKO® Socket outlet 16 A CEE Socket outlet 16 A	2	1		
Equipment	2	1		
Type	STV 512-S			
Order-No.:	728 312 01			
Dimensions (mm)	125 x 400 x 122			
	ready for connection			
SCHUKO® Socket outlet 16 A CEE Socket outlet 16 A LS-switch, B 16 A, 1p LS-switch, C 16 A, 3p	2	1	2	
Equipment	2	1	2	
Type	STV 512-K			
Order-No.:	728 412 01			
Dimensions (mm)	125 x 400 x 122			

STV socket distribution boards		pre-wired		
	SCHUKO® Socket outlet 16 A			
	Equipment	4		
	Type	STV 904-S		
	Order-No.:	729 304 01		
Dimensions (mm)	200 x 200 x 122			
	ready for connection			
SCHUKO® Socket outlet 16 A LS-switch B 16 A, 1p FI-switch 25 A, 4p, 0.03 A	4	4	1	
Equipment	4	4	1	
Type	STV 904-K			
Order-No.:	729 404 01			
Dimensions (mm)	200 x 200 x 122			

STV and STG enclosure also combinable with small distribution boards up to AKi 24 combinable!









**STV KS-IP 65**  
**791 002 01**  
5,55 E






For simple connections with AKi small distribution boards

	5 Modules
Equipment	
Type	AKi 05
Order-No.:	736 405 01
Dimensions (mm)	125 x 200 x 122


	9 Modules
Equipment	
Type	AKi 09
Order-No.:	736 409 01
Dimensions (mm)	200 x 200 x 122

STV Socket outletverteiler						
	pre-wired	pre-wired	ready for connection			
	SCHUKO® Socket outlet 16 A	SCHUKO® Socket outlet 16 A	SCHUKO® Socket outlet 16 A			
	CEE Socket outlet 16 A	CEE Socket outlet 32 A	CEE Socket outlet 16 A			
	2	2	2			
	1	1	1			
Equipment	2	1	2	1	1	
Type	<b>STV 912-S</b>		<b>STV 912-S32</b>		<b>STV 912-K</b>	
Order-No.:	<b>729 312 01</b>		<b>729 313 01</b>		<b>729 412 01</b>	
Dimensions (mm)	200x400x122		250 x 400 x 122		250 x 400 x 122	

STV Socket outletnverteiler						
	ready for connection	pre-wired	ready for connection			
	SCHUKO® Socket outlet 16 A	SCHUKO® Socket outlet 16 A	SCHUKO® Socket outlet 16 A			
	CEE Socket outlet 16 A	CEE Socket outlet 16 A	CEE Socket outlet 16 A			
	CEE Socket outlet 32 A	CEE Socket outlet 32 A	CEE Socket outlet 32 A			
	LS-switch B 16 A, 1p	LS-switch B 16 A, 1p	LS-switch B 16 A, 1p			
LS-switch C 32A, 3p	LS-switch C 32A, 3p	LS-switch C 32A, 3p				
LS-switch C 16 A, 3p	LS-switch C 16 A, 3p	LS-switch C 16 A, 3p				
Socket outlet combination 1x R/45 CAT.6	Socket outlet combination 1x R/45 CAT.6					
2	1	1	3	1	1	
Equipment	2	1	1	3	1	1
Type	<b>STV 922-K-LAN</b>					
Order-No.:	<b>729 422 11</b>					
Dimensions (mm)	250 x 400 x 122					
	<b>STV 923-S</b>			<b>STV 923-K</b>		
	<b>729 323 01</b>			<b>729 423 01</b>		
	250 x 400 x 122			250 x 400 x 122		


STV Socket outletnverteiler						
	pre-wired	ready for connection	pre-wired	pre-wired	ready for connection	
	SCHUKO® Socket outlet 16 A	SCHUKO® Socket outlet 16 A	SCHUKO® Socket outlet 16 A	SCHUKO® Socket outlet 16 A	SCHUKO® Socket outlet 16 A	
	CEE Socket outlet 16 A	CEE Socket outlet 16 A	CEE Socket outlet 16 A	CEE Socket outlet 16 A	CEE Socket outlet 16 A	
	CEE Socket outlet 32 A	CEE Socket outlet 32 A	CEE Socket outlet 32 A	CEE Socket outlet 32 A	CEE Socket outlet 32 A	
	LS-switch B 16 A, 1p	LS-switch B 16 A, 1p	LS-switch B 16 A, 1p	LS-switch B 16 A, 1p	LS-switch B 16 A, 1p	
FI-switch 40 A, 4p, 0,03 A	FI-switch 40 A, 4p, 0,03 A			FI-switch 40 A, 4p, 0,03 A		
4	8	8	1	4	1	
Equipment	8	8	1	4	2	
Type	<b>STV 1208-S</b>		<b>STV 1208-K</b>		<b>STV 1224-S</b>	
Order-No.:	<b>731 308 01</b>		<b>731 408 01</b>		<b>731 324 01</b>	
Dimensions (mm)	250 x 400 x 122		250 x 400 x 122		250 x 400 x 122	
	<b>STV 1224-S32</b>				<b>STV 1224-K-LAN</b>	
	<b>731 124 01</b>				<b>731 424 21</b>	
	250 x 400 x 122				250 x 400 x 122	

## Socket Distribution Boards and Enclosures




pre-wired

SCHUKO® Socket outlet 16 A	CEE Socket outlet 16 A	CEE Socket outlet 32 A
2	1	1
<b>STV 922-S</b>		
<b>729 322 01</b>		
250 x 400 x 122		



ready for connection

SCHUKO® Socket outlet 16 A	CEE Socket outlet 16 A	CEE Socket outlet 32 A	LS-switch B 16 A, 1p	LS-switch C 32 A, 3p	LS-switch C 16 A, 3p
2	1	1	2	1	1
<b>STV 922-K</b>					
<b>729 422 01</b>					
250 x 400 x 122					




pre-wired

SCHUKO® Socket outlet 16 A	CEE Socket outlet 16 A
2	2
<b>STV 1222-S16</b>	
<b>731 222 01</b>	
250 x 400 x 122	



pre-wired


SCHUKO® Socket outlet 16 A	CEE Socket outlet 16 A	CEE Socket outlet 32 A
2	1	1
<b>STV 1222-S</b>		
<b>731 322 01</b>		
250 x 400 x 122		



ready for connection


SCHUKO® Socket outlet 16 A	CEE Socket outlet 16 A	CEE Socket outlet 32 A	LS-switch B 16 A, 1p	LS-switch C 16 A, 3p	LS-switch C 32 A, 3p	FI-switch 40 A, 4p, 0,03 A
2	1	1	2	1	1	1
<b>STV 1222-K</b>						
<b>731 422 01</b>						
250 x 400 x 122						

LS-switch C 16 A, 3p	Socket outlet combination 2x RJ45 CAT.6
1	1




ready for connection

SCHUKO® Socket outlet 16 A	CEE Socket outlet 16 A	CEE Socket outlet 32 A	LS-switch B 16 A, 1p	LS-switch C 16 A, 3p	LS-switch C 32 A, 3p	FI-switch 40 A, 4p, 0,03 A
4	1	1	2	1	1	1
<b>STV 1224-K</b>						
<b>731 424 01</b>						
250 x 400 x 122						



ready for connection

SCHUKO® Socket outlet 16 A	CEE Socket outlet 16 A	LS-switch B 16 A, 1p	LS-switch C 16 A, 3p	FI-switch 40 A, 4p, 0,03 A
4	2	2	2	1
<b>STV 1224-K16</b>				
<b>731 624 01</b>				
250 x 400 x 122				



ready for connection





SCHUKO® Socket outlet 16 A	CEE Socket outlet 32 A	LS-switch B 16 A, 1p	LS-switch C 32 A, 3p	FI-switch 40 A, 4p, 0,03 A
4	2	2	2	1
<b>STV 1224-K32</b>				
<b>731 824 01</b>				
250 x 400 x 122				







Equipment	STK Socket outlet combination			ready for connection		ready for connection		ready for connection		ready for connection		ready for connection		ready for connection			
	Type	CEE Socket outlet 125 A			CEE Socket outlet 16 A		SCHUKO® Socket outlet 16 A		CEE Socket outlet 16 A		CEE Socket outlet 32 A		CEE Device plug 16A		CEE Device plug 32 A		CEE Device plug 63 A
Order-No.:	730 001 01			730 002 01		730 003 01		730 030 01		730 031 01		730 032 01		730 032 01		730 032 01	
Dimensions (mm)	315 x 300 x 266			315 x 300 x 266		315 x 300 x 266		315 x 300 x 266		315 x 300 x 266		315 x 300 x 266		315 x 300 x 266		315 x 300 x 266	



## Socket Outlet Combination | STK

STK Socket outletnkombination	 ready for connection					 ready for connection					 ready for connection					 ready for connection																								
	SCHUKO® Socket outlet 16 A		CEE Socket outlet 16 A		LS-switch C 16 A, 1p		LS-switch C 16 A, 3p		FI-switch 40 A, 4p, 0,03 A		SCHUKO® Socket outlet 16 A		CEE Socket outlet 32 A		LS-switch C 16 A, 1p		LS-switch C 32 A, 3p		FI-switch 40 A, 4p, 0,03 A																					
	2		1		2		1		1		2		1		2		1		1																					
	Type					STK 1412-K16					Type					STK 1412-K32					Type					STK 1414-K16					Type					STK 1404-K				
	Order-No.:					730 101 01					Order-No.:					730 102 01					Order-No.:					730 103 01					Order-No.:					730 104 01				
Dimensions (mm)					315 x 450 x 195					Dimensions (mm)					315 x 450 x 195					Dimensions (mm)					315 x 450 x 195					Dimensions (mm)					315 x 450 x 195					

STK Socket outlet combination	 ready for connection							 ready for connection					 ready for connection																					
	SCHUKO® Socket outlet 16 A		CEE Socket outlet 16 A		CEE Socket outlet 32 A		LS-switch C 16 A, 1p		LS-switch C 16 A, 3p		LS-switch C 32 A, 3p		FI-switch 40 A, 4p, 0,03 A		SCHUKO® Socket outlet 16 A		CEE Socket outlet 16 A		LS-switch C 16 A, 1p		LS-switch C 16 A, 3p		FI-switch 40 A, 4p, 0,03 A											
	4		1		1		4		1		1		1		4		2		4		2		1											
	Type							STK 2824-K1632							Type					STK 2824-K1616					Type					STK 2824-K3232				
	Order-No.:							730 201 01							Order-No.:					730 202 01					Order-No.:					730 203 01				
Dimensions (mm)							315 x 750 x 198							Dimensions (mm)					315 x 750 x 198					Dimensions (mm)					315 x 750 x 198					

STK Socket outletnkombination	 ready for connection																	
	SCHUKO® Socket outlet 16 A		CEE Socket outlet 16 A		CEE Socket outlet 32 A		CEE Socket outlet 63 A		LS-switch C 16 A, 1p		LS-switch C 16 A, 3p		LS-switch C 32 A, 3p		LS-switch C 63 A, 3p		FI-switch 40 A, 4p, 0,03 A	
	4		1		1		1		4		1		1		1		1	
	Type									STK 2834-K163263								
	Order-No.:									730 204 01								
Dimensions (mm)									315 x 1050 x 232									

#### Advantages at a glance:

- Based on proven AK Air small distribution boards
- Can be flexibly combined via AK flange system
- Wired ready for connection
- For daily use in industrial environments
- Higher IP protection rating up to IP 65
- Country-specific solutions
- Additional built-in devices (e.g. counters)



- 4 basic enclosures up to 600 x 300 mm with up to 2 different lid heights
- Box: optionally polystyrene (AKL) or glass fiber reinforced polycarbonate (AKi-L grey, similar RAL 7035)
- Cover: grey (Polystyrene or Polycarbonate) or transparent (Polycarbonate)
- Side walls with pre-stamped metric knockouts
- Can be combined up to protection class IP65



**External mounting brackets**

IP65	IK07		690V AC	1000V DC		AKL	
IP65	IK08		690V AC	1000V DC			AKi-L



**External hinges**

## Empty Enclosures | AKL / AKi-L



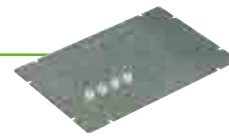
 <b>AKL</b> Cover: Grey, Polystyrene Box: Grey, Polystyrene		 <b>AKL</b> Cover: Transparent, Polycarbonate Box: Grey, Polystyrene		 <b>AKi-L</b> Cover: Grey Polycarbonate Box: Grey Polycarbonate		 <b>AKi-L</b> Cover: Transparent Polycarbonate Box: Grey Polycarbonate		<b>Dimensions (mm)</b>
Enclosure	Order-No.	Enclosure	Order-No.	Enclosure	Order-No.	Enclosure	Order-No.	
AKL 1-g	<b>740 401 01</b>	AKL 1-t	<b>744 001 01</b>	AKi 1-g	<b>741 401 01</b>	AKi 1-t	<b>745 001 01</b>	<b>300 x 150 x 132</b>
AKL 2-g	<b>740 402 01</b>	AKL 2-t	<b>744 002 01</b>	AKi 2-g	<b>741 402 01</b>	AKi 2-t	<b>745 002 01</b>	<b>300 x 300 x 132</b>
AKL 2-gh	<b>742 902 01</b>	AKL 2-th	<b>746 902 01</b>	AKi 2-gh	<b>743 902 01</b>	AKi 2-th	<b>747 902 01</b>	<b>300 x 300 x 209</b>
AKL 3-g	<b>740 403 01</b>	AKL 3-t	<b>744 003 01</b>	AKi 3-g	<b>741 403 01</b>	AKi 3-t	<b>745 003 01</b>	<b>300 x 450 x 132</b>
AKL 3-gh	<b>742 903 01</b>	AKL 3-th	<b>746 903 01</b>	AKi 3-gh	<b>743 903 01</b>	AKi 3-th	<b>747 903 01</b>	<b>300 x 450 x 209</b>
AKL 4-g	<b>740 404 01</b>	AKL 4-t	<b>744 004 01</b>	AKi 4-g	<b>741 401 01</b>	AKi 4-t	<b>745 004 01</b>	<b>300 x 600 x 132</b>
AKL 4-gh	<b>742 904 01</b>	AKL 4-th	<b>746 904 01</b>	AKi 4-gh	<b>743 904 01</b>	AKi 4-th	<b>747 904 01</b>	<b>300 x 600 x 209</b>



**Mounting plate**  
Insulating material

Product	Enclosure	Order-No.	Dimensions (mm)
AK MPI 1	AKL/AKi 1-4	<b>795 001 01</b>	<b>240 x 112 x 4</b>
AK MPI 2	AKL/AKi 2-4	<b>795 002 01</b>	<b>240 x 240 x 4</b>
AK MPI 3	AKL/AKi 3-4	<b>795 003 01</b>	<b>240 x 390 x 4</b>
AK MPI 4	AKL/AKi 4	<b>795 004 01</b>	<b>240 x 540 x 4</b>

Mounting plate made of insulating material, incl. fixing screws



**Mounting plate**  
Stainless steel

Product	Enclosure	Order-No.	Dimensions (mm)
AK MPS 2	AKL/AKi 2-4	<b>795 012 01</b>	<b>240 x 240 x 2</b>
AK MPS 3	AKL/AKi 3-4	<b>795 013 01</b>	<b>240 x 390 x 2</b>
AK MPS 4	AKL/AKi 4	<b>795 014 01</b>	<b>240 x 540 x 2</b>

Mounting plate made of stainless steel, incl. fixing screws



**Din Rail NS 35**

Product	Enclosure	Length	Order-No.
AL NS 35-250	AKL/AKi-L	250 mm	<b>162 009 01</b>
AL NS 35-216/3	AKL/AKi-L	216 mm	<b>162 011 01</b>
AL NS 35-406	AKL/AKi-L	406 mm	<b>162 014 01</b>
AL NS 35-556	AKL/AKi-L	556 mm	<b>162 010 01</b>

Din Rail nach DIN EN 60715, **35 x 7,5, 35 mm** breit



**Carrier NS**

Product	Height (mm)	Order-No.
TR NS35-20	20	<b>795 020 01</b>
TR NS35-34	34,5	<b>795 034 01</b>
TR NS35-42	42,5	<b>795 042 01</b>
TR NS35-58	58,5	<b>795 058 01</b>
TR NS35-64	64	<b>795 064 01</b>
TR NS35-91	91	<b>795 091 01</b>

Support for standard rails to DIN EN 60715, 35 x 7.5 mm, set = 10 pieces



**Träger NS Befestigungsschrauben**

Product	Order-No.
SR NS35	<b>795 413 01</b>

Fastening screws for 1 carrier set TR NS35/xx



**KF 12 top-hung window**

Product	Order-No.	Dimensions (mm)
KF 12	<b>567 412 01</b>	<b>228 x 80</b>

for mounting on housing cover, for max. 12 graduation units of 17.5 mm each, with transparent hinged window, frame with seal on both sides, drilling template and fixing screws

**Screwless PE/N clamping rail**

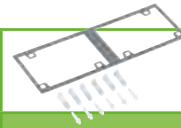
Product	Order-No.
<p><b>AK 14 PEN-SL</b></p> <p>Screwless PE/N clamping rail, for installation in AK small distributors from AK 14 and AKL/AKi empty housings as additional terminals or for replacement requirements. Single-stage PE/N terminal rail with each, 3 screwable clamping points, 2.5 mm<sup>2</sup> - 16 mm<sup>2</sup> and 14 screwless clamping points, 1.5 - 4 mm<sup>2</sup></p> 	<b>790 317 01</b>
<p><b>AK 28 PEN-SL</b></p> <p>Screwless PE/N clamping rail, for installation in AK small distributors from AK 14 and AKL/AKi empty housings as additional terminals or for replacement requirements. Two-row PE/N terminal rail each with, 6 screwable clamping points, 2.5 mm<sup>2</sup> - 16 mm<sup>2</sup> and 21 / 2 x 14 screwless clamping points 1.5 mm<sup>2</sup> - 4 mm<sup>2</sup></p> 	<b>790 327 01</b>
<p><b>AK N-SL</b></p> <p>Screwless PE/N clamping rail, for installation in AK small distributors from AK 14 and AKL/AKi empty housings as additional terminals or for replacement requirements. Single-stage N terminal rail, with 4 screwable clamping points 2.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, and 28 screwless clamping points 1.5 mm<sup>2</sup> - 4 mm<sup>2</sup>, following removal of the cross-connection, distribution into, 2 N potentials each with 3 screwable clamping points, 2.5 mm<sup>2</sup> - 16 mm<sup>2</sup> and 14 screwless, clamping points 1.5 mm<sup>2</sup> - 4 mm<sup>2</sup></p> 	<b>790 318 01</b>



### SF 12 viewing window

Product	Order-No.	Dimensions (mm)
SF 12	<b>568 012 01</b>	<b>228 x 80</b>

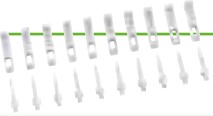
Viewing window for mounting on housing cover, transparent viewing panel, with drilling template and fixing screws



### AK Combi set

Product	Order-No.
AK KS-IP65	<b>791 001 01</b>

For horizontal or vertical combination of AKL / AKI-L empty enclosures, AKI switch and fuse enclosures, AKI socket outlet distributors, AKI-Z / ZVi meter enclosures, complete with wedge connectors and enclosure intermediate seal for 150 and 300 mm enclosure sides, each 300 mm = 1 combination set



### AK Combi set

Product	Order-No.
AK KS-IP30	<b>591 100 01</b>

Combination set without intermediate housing seal, for horizontal or vertical combination of AKL / AKI-L empty housings, AKI switch and fuse housings, AKI socket outlet distributors, AKI-Z / ZVi meter housings, 1 set = 10 wedge connectors



### Combi connector

Product	for wall	Order-No.
KST M32	1,5 - 4,0	<b>193 032 01</b>
KST M25-33	1,5 - 4,0	<b>193 026 01</b>
KST M25-17	1,5 - 4,0	<b>193 025 01</b>

Combination socket for connecting enclosures, polyethylene, grey, for wall thickness 1.5 - 4.0 mm



### Combination set

Product	for wall	Length/mm	Order-No.
KS M20	2 - 3,0	12	<b>192 020 01</b>
KS M25	2 - 3,0	12	<b>192 025 01</b>
KS M25-gro	2 - 8,0	22	<b>192 026 01</b>
KS M32	2 - 3,5	14	<b>192 032 01</b>

Combination set for connecting enclosures with metric entries, polystyrene, grey, complete with locknut and partition seal



### AK Enclosure wall

Product	Knockouts	Order-No.
AK ABF 1	2 x M32/M40/M50 1 x M40/M50/M63	<b>795 048 01</b>
AK ABF 2	smooth for self-drilling	<b>795 050 01</b>

Enclosure wall, for installation in the components of the AK enclosure system (until 04/15) for 300 mm wide end walls, with cable covers as standard with knockouts, 2 x M32 / M40 / M50, 1 x M40 / M50 / M63



### AKi Enclosure wall

Product	Vorprägungen	Order-No.
AKi ABF 1	2 x M32/M40/M50 1 x M40/M50/M63	<b>796 051 01</b>
AKi ABF 2	smooth for self-drilling	<b>796 050 01</b>

Enclosure wall, for attachment to components of AKi enclosure system to 300 mm wide sides, with cable covers as standard with knockouts, 2 x M32 / M40 / M50, 1 x M40 / M50 / M63



### Padlock kit

Product	Enclosure	Order-No.
VSG	ab AKL/AKi 1	<b>190 100 01</b>

Padlock kit for upgrading the enclosure cover to lockable hinged door, incl. padlock, 2 hinges, fixing screws, cover plugs and drilling template from TK PS/PC 1811 onwards and AKL/AKi 1



### Partition wall

Product	Order-No.
AK TW	<b>797 910 01</b>

Partition wall, for installation in AKL / AKI-L empty enclosures, can be used universally for different enclosure heights, with knock-out openings, gray



### Hinge set

Product	Enclosure	Order-No.
ASS-gro	ab AKL/AKi 1	<b>190 005 01</b>

External hinge set for converting the housing cover into a hinged door. Incl. 2 hinges, fixing screws, cover plugs and drilling template



### Z wall profile

Product	Order-No.
ZPR	<b>070 800 01</b>

Z-wall profile, length 2 m, with 8 M6 cylinder screws and 8 captive push nuts, wall clearance 70 mm, material: galvanised steel



### AK External mounting brackets

Product	Order-No.
AK ABL-ES	<b>793 004 01</b>

External fixing lugs, for mounting separate enclosures or small units on flat wall surfaces, can be fixed to the box base at an angle of 0°, 45°, or 90°, wall gap 7 mm, material stainless steel, suitable for all AK enclosures from 300 mm front, Set = 4 pcs.



### MORE CONNECTION SPACE, MORE CONVENIENCE

More room for easier wiring and higher power dissipation. Suitable for multitiered terminal blocks in commerce and industry.

# 14

### 14 MODULES INSTEAD OF 12

Two additional modules per row for more options and sufficient reserve capacity for retrofits - such as 1 surge protector (3-pole), 1 residual current circuit breaker, 6 load current circuit breakers.



### NEW PE/N TERMINALS

The new PE/N terminals make it even easier to connect protective and neutral conductors. Proven technology innovatively developed.



### MORE COMBINABILITY

All AK distribution boards can be simply and quickly horizontally combined with other AK distribution boards using the combination gland. The AK-F types are available for vertical combinations.



### VDE + DLG CERTIFIED (EN 60670-24/VDE 0606-24)

Safe application due to conformity with international standards and compliance with the statutory protection requirements.

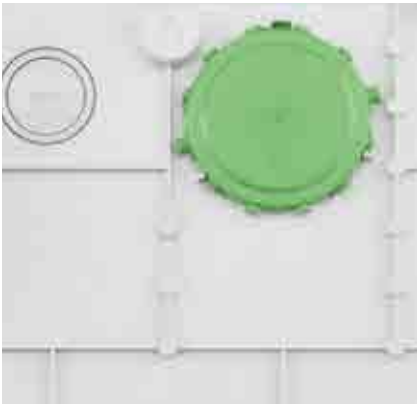


### OPTION FOR SCHUKO SOCKET OUTLETS

The extension socket that can be easily integrated into the distribution board and reduces the workload thanks to the availability of connection possibilities without external surface-mounted socket outlets for maintenance purposes.

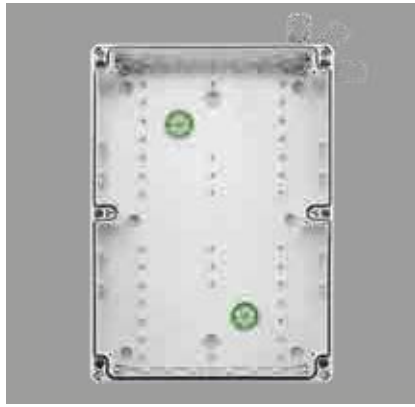


## Distribution Boards | AK Air



**INTEGRATED  
AIR VENTILATION ELEMENTS**

Effective and maintenance-free protection against the formation of condensation due to constant air circulation while maintaining the high protection rating IP65.



**SIMPLE AND VERSATILE  
FIXING VARIANTS**

Fast, safe installation by means of practical 3-point, 4-point or keyhole fixings, as well as external fixing lugs outside the sealing area



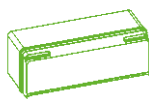
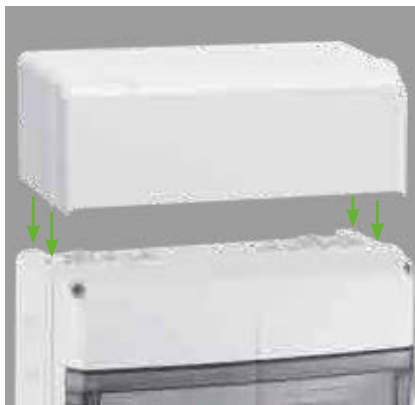
**ROBUST ENCLOSURE FOR THE HIGHEST  
DEMANDS WITH IK08**

The solution for harsh industrial and commercial environments thanks to IK08 impact resistance and IP65 shock hazard protection.



**HEIGHT-ADJUSTABLE STANDARD RAIL**

More flexibility when installing rail-mounted devices of sizes 1-3 and special sizes. Easier wiring thanks to the distance between the top DIN rail and the bottom of the distribution board.



**CABLE COVER + CABLE INSERTION**

The straightforward cable insertion is made possible thanks to a pre-assembled membrane seals or cable glands. A cable cover ensures a clean appearance thanks to optional concealment of cable insertions.



**PROVEN INDUSTRIAL QUALITY**

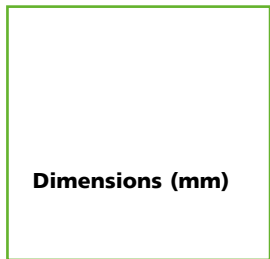
- Suitable for temperatures ranging from -35 °C to +80 °C
- Resistant to petrol, mineral oil, grease, diesel, turpentine  
(and to a limited extent acids and alcohol)
- UV- and weather-resistant
- Flame-retardant and self-extinguishing up to 960 °C in accordance with VDE 0471 / EN 60695 / UL94
- Impact-resistant
- Free from halogens, heavy metals, PVC and silicon



Enclosure	TE	Order-No.
AK 14	14 TE	<b>733 414 01</b>
AK 28	28 TE	<b>733 428 01</b>
AK 42	42 TE	<b>733 442 01</b>
AK 56	56 TE	<b>733 456 01</b>
AK 70	70 TE	<b>733 470 01</b>
AK 14 Plus	14 TE	<b>733 614 01</b>
AK 28 Plus	28 TE	<b>733 628 01</b>
AK 42 Plus	42 TE	<b>733 642 01</b>



Enclosure	TE	Order-No.
AK-F 14	14 TE	<b>733 514 01</b>
AK-F 28	28 TE	<b>733 528 01</b>
AK-F 42	42 TE	<b>733 542 01</b>
AK-F 56	56 TE	<b>733 556 01</b>
-----	-----	-----
AK-F 14 Plus	14 TE	<b>733 714 01</b>
AK-F 28 Plus	28 TE	<b>733 728 01</b>
AK-F 42 Plus	42 TE	<b>733 742 01</b>



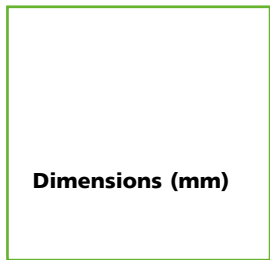
300 x 315 x 155
450 x 315 x 155
600 x 315 x 155
750 x 315 x 155
1050 x 315 x 155
450 x 315 x 155
600 x 315 x 155
750 x 315 x 155



Enclosure	TE	Order-No.
AK 14 UL	14 TE	<b>733 414 52</b>
AK 28 UL	28 TE	<b>733 428 52</b>
AK 42 UL	42 TE	<b>733 442 52</b>
AK 56 UL	56 TE	<b>733 456 52</b>
AK 14 Plus UL	14 TE	<b>733 614 52</b>
AK 28 Plus UL	28 TE	<b>733 628 52</b>
AK 42 Plus UL	42 TE	<b>733 642 52</b>





Enclosure	TE	Order-No.
AK-F 14 UL	14 TE	<b>733 514 52</b>
AK-F 28 UL	28 TE	<b>733 528 52</b>
AK-F 42 UL	42 TE	<b>733 542 52</b>
AK-F 56 UL	56 TE	<b>733 556 52</b>
AK-F 14 Plus UL	14 TE	<b>733 714 52</b>
AK-F 28 Plus UL	28 TE	<b>733 728 52</b>
AK-F 42 Plus UL	42 TE	<b>733 742 52</b>





300 x 315 x 155
450 x 315 x 155
600 x 315 x 155
750 x 315 x 155
450 x 315 x 155
600 x 315 x 155
750 x 315 x 155


<b>AK 14 L</b>		Flange variants <b>AK-F 14 L</b>		Flange variants <b>AK-F/DMS 14 L</b>		<b>Dimensions (mm)</b>
Enclosure	Order-No.	Enclosure	Order-No.	Enclosure	Order-No.	
AK 14 L-g	<b>733 410 01</b>	AK-F 14 L-g	<b>733 510 01</b>	AK-F/DMS 14 L-g	<b>733 310 01</b>	
AK 14 L-t	<b>733 411 01</b>	AK-F 14 L-t	<b>733 511 01</b>	AK-F/DMS 14 L-t	<b>733 311 01</b>	315 x 300 x 147


 <b>Combination cable gland M50</b>	
Product	Order-No.
AK3 KS M50	<b>733 830 01</b>
Combination cable glands M50 for the lateral connection of housings AK/AK-F 14/28/42/56/70, as well as Plus types	

 <b>Flange for AK-F</b>		
Product	Vorprägungen	Order-No.
AK3 FL00	ohne	<b>733 820 01</b>
AK3 FL01	1 x M50/M40, 2 x M40/32, 2 x M20	<b>733 821 01</b>
AK3 FL02	5 x M25/M20, 4 x M20, 2 x M16	<b>733 822 01</b>
AK3 FL13	with insert via double membrane seals DMS M32 and opening for flange types FL13 as per standard SEN 28 09 01	<b>733 828 01</b>
Enclosure wall including flange connector for sealing the face of AK-F enclosures		

 <b>Flange for AK-F</b>	
Product	Order-No.
AK3 KFL	<b>733 829 01</b>
Combination flange incl. flange connector for the front connection of AK-F housings	

 <b>Cable cover</b>	
Product	Order-No.
AK3 KBL	<b>733 831 01</b>
Cable cover for the attachment to AK/AK-F 14/28/42/56/70 housings, as well as Plus types, Can be retroactively mounted on the end	

 <b>Schuko mounting socket</b>	
Product	Order-No.
AK3 STD Schuko® mounting socket	<b>733 834 01</b>
AK3 SDP Belgian / French standard	<b>733 836 01</b>
Mounting socket 16 A, for the lateral assembly on housings AK/AK-F 14/28/42/56/70, as well as Plus types	

 <b>Partition wall</b>	
Product	Order-No.
AK3 TW	<b>733 832 01</b>
Divider made of plastic, suitable for the interior subdivision of AK/AK-F 14/28/42/56 housings	



### Mounting plate

Insulating material

Product	Order-No.
AK3 MPI 14 L for AK 14 L addition and empty enclosure	733 838 01
AK3 MPI With opening for AIR ventilation element, for Plus	733 835 01
Mounting plate made from insulating material, incl. fixing screws	



### External fixing lugs

Product	Order-No.
AK3 ABL-ES	733 833 01



### AK3 Hinged window

Product	Order-No.
AK3 KF	733 801 01
AK3 hinged window as a replacement part for all AK/AK-F 14/28/42/56, as well as Plus types, incl. hinge and handle	



### PE/N Terminal rails

Product	Number of poles	Clamping range	Order-No.
AK 03 PEN-S	2 x 4-poles	1x16 / 3x6 mm <sup>2</sup>	790 204 01
AK 05 PEN-S	2 x 5-poles	2x16 / 3x6 mm <sup>2</sup>	790 205 01
AK 09 PEN-S	2 x 7-poles	2x16 / 5x6 mm <sup>2</sup>	790 207 01
AK 12 PEN-S	2 x 12-poles	2x16 / 10x6 mm <sup>2</sup>	790 211 01
AK 24 PEN-S	2 x 16-poles	2x16 / 14x6 mm <sup>2</sup>	790 218 01
AK 14/28 PEN-S	2 x 17-poles	1x25 / 4x16 / 12x6 mm <sup>2</sup>	790 217 01
AK 42 PEN-S	2 x 25-poles	1x25 / 6x16 / 18x6 mm <sup>2</sup>	790 225 01



### Plug clamps

Product	Order-No.
KLS L 1/14-SL, grey	790 320 01
KLS N 1/14-SL, blue	790 321 01
KLS PE 1/14-SL, green	790 322 01



### External hinge

Product	Order-No.
AK3 AS only for AK 14 L - addition and empty enclosure	733 837 01



### Standard rail

35 x 7,5 mm

Product	Order-No.
AK3 NS35-14 für 14 TE	733 812 01
AK3 NS35-275 Länge 275 mm	733 813 01



### Terminal rails

Product	Order-No.
AK 14 PEN-SL  Single-stage PE/N terminal rail with each, 3 screwable clamping points, 2.5 mm <sup>2</sup> - 16 mm <sup>2</sup> and, 14 screwless terminal points, 1.5 - 4 mm <sup>2</sup> , incl. adapters for installation in AK and AK-F distribution boards and Plus types with Air technology	790 317 01
AK 28 PEN-SL  Two-row PE/N terminal rail each with, 6 screwable clamping points, 2.5 mm <sup>2</sup> - 16 mm <sup>2</sup> and, 21 / 2 x 14 screwless clamping points 1.5 mm <sup>2</sup> - 4 mm <sup>2</sup> , incl. adapters for installation in AK and AK-F distribution boards and Plus types with Air technology	790 327 01
AK N-SL  Single-stage N terminal rail, with 4 screwable clamping points 2.5 mm <sup>2</sup> - 16 mm <sup>2</sup> , and 28 screwless clamping points 1.5 mm <sup>2</sup> - 4 mm <sup>2</sup> , Following removal of the cross-connection, distribution into, 2 N potentials each with 3 screwable terminal points, 2.5 mm <sup>2</sup> - 16 mm <sup>2</sup> and 14 screwless, Terminal points 1.5 mm <sup>2</sup> - 4 mm <sup>2</sup> , incl. adapters for installation in AK and AK-F distribution boards and Plus types with Air technology	790 318 01



### Lock fittings

Product	Order-No.
AK SGA-1 Identical locks	706 102 01
AK SGA-2 Different closures, max. 10 different closures possible	706 902 01



### Combi connector

Product	Length/mm	Order-No.
KST M32	25	193 032 01
KST M25-33	33	193 026 01
KST M25-17	17	193 025 01

Combi connector, for connecting enclosures, thermoplastic, for wall thickness 1.5 - 4.0 mm



### Masking off strips

Product	Order-No.
AK AS-v Width 108 mm for 6 distribution units	799 012 01
AK AS-v Width 216 mm for 12 distribution units, lockable	799 013 01
AK AS UL Width 108 mm for 6 distribution units	799 012 52

Masking off strips, to close off unused circuit-breaker positions, detachable, Grey



### Cable gland

Product	Tread length/ mm	Sealing area/ mm	Order-No.
KVR M12-MGM	8	2 - 6,5	227 412 01
KVR M16-MGM	8	4 - 10,0	227 416 01
KVR M20-MGM	9	6 - 12,0	227 420 01
KVR M20-GDB/MGM	9	7 - 14,0	227 421 01
KVR M25-MGM	11	9 - 16	227 425 01
KVR M32-MGM	11	11 - 21,0	227 432 01
KVR M40-MGM	11	16 - 28,0	227 440 01
KVR M50-MGM	13	21 - 34,5	227 450 01
KVR M63-MGM	17	30 - 44,5	227 463 01

Cable gland with strain relief, polyamide, M\_ x 1.5 mm, with lock nut



### Combi set

Product	Wall thickness/mm	Thread length/mm	Order-No.
KS M20	2 - 3,0	12	192 020 01
KS M25	2 - 3,0	12	192 025 01
KS M25-gro	2 - 8,0	22	192 026 01
KS M32	2 - 3,5	14	192 032 01

Combi set, for side connection of enclosures with metric entries, complete with lock nuts and intermediate wall seal inserts



### Ventilation seal

Product	Colour	Order-No.
BST M20	grey	262 420 01
BST M20/sw	black	262 020 01



### Double-membrane seals

Product	Sealing area/ mm	Order-No.
DMS M16	5 - 9	260 416 01
DMS M20	7 - 12	260 420 01
DMS M25	9 - 16	260 425 01
DMS M32	14 - 21	260 432 01
DMS M40	19 - 28	260 440 01



**In application** | AK Air





### For installation in industrial environments and unprotected outdoor areas

- 100% suitable for outdoor use
- High IP and IK degree of protection
- High glow wire resistance
- Safety reserves when used in extreme installation environments (heat, temperature, sunlight)
- Authorised for use on ships (DNV approval)
- Patented knockout with integrated knockout assistance saves time-consuming reworking
- Metric cable entries suitable for a variety of cable diameters
- Base for cable glands, connecting piece, etc.
- Condensation can be avoided through the use of BST ventilation elements
- Lower cost and reduced weight compared with brass boxes



**Made for extreme requirements** | Abox Pro



### For installation underground and in floodplains

- Tested in accordance with DIN EN 60 529, IP 68, 168 h, water depth up to 15 metres
- IP 68 solution as a complete set
- Tested in accordance with DIN VDE 60670-22-100
- Effortless retrofitting, because the cast resin is easy to remove again
- Available in 3 variants up to max. 10<sup>2</sup>:
  - with compact design XT SLK (2.5<sup>2</sup>, 4<sup>2</sup>)
  - with raised terminals XT SL (4<sup>2</sup>, 6<sup>2</sup>)
  - with screw terminals XT (6<sup>2</sup>, 10<sup>2</sup>)
- Clean pouring of the box by means of mixing bag and funnel

### Applications

- Floodplains
- Underground with no traffic loads
- Areas at risk from standing water
- Pump shafts
- Waterworks
- Washing systems
- Tunnels
- Harbour facilities



Abox Pro XT / Abox Pro XT SL



**Abox Pro**

Type	Order-No.
Abox Pro 025-L	<b>402 400 01</b>
Abox Pro 025 AB-L	<b>402 401 01</b>
Abox Pro 040-L	<b>404 400 01</b>
Abox Pro 040 AB-L	<b>404 401 01</b>

Type	Order-No.
Abox Pro 025-2,5 <sup>2</sup>	<b>402 420 01</b>
Abox Pro 025 AB-2,5 <sup>2</sup>	<b>402 421 01</b>
Abox Pro 040-4 <sup>2</sup>	<b>404 420 01</b>
Abox Pro 040 AB-4 <sup>2</sup>	<b>404 421 01</b>

Type	Order-No.
Abox Pro 025-L/sw	<b>402 000 01</b>
Abox Pro 025 AB-L/sw	<b>402 001 01</b>
Abox Pro 040-L/sw	<b>404 000 01</b>
Abox Pro 040 AB-L/sw	<b>404 001 01</b>



**Abox Pro**

Type	Order-No.
Abox Pro 060-L	<b>406 400 01</b>
Abox Pro 100-L	<b>410 400 01</b>
Abox Pro 160-L	<b>416 400 01</b>
Abox Pro 250-L	<b>425 400 01</b>
Abox Pro 350-L	<b>435 400 01</b>

Type	Order-No.
Abox Pro 060-6 <sup>2</sup>	<b>406 420 01</b>
Abox Pro 100-10 <sup>2</sup>	<b>410 420 01</b>
Abox Pro 160-16 <sup>2</sup>	<b>416 420 01</b>
Abox Pro 250-25 <sup>2</sup>	<b>425 420 01</b>
Abox Pro 350-35 <sup>2</sup>	<b>435 420 01</b>

Type	Order-No.
Abox Pro 060-L/sw	<b>406 000 01</b>
Abox Pro 100-L/sw	<b>410 000 01</b>
Abox Pro 160-L/sw	<b>416 000 01</b>
Abox Pro 250-L/sw	<b>425 000 01</b>
Abox Pro 350-L/sw	<b>435 000 01</b>



**Abox Pro XT**

Type	Clamp	Order-No.
Abox Pro XT-6 <sup>2</sup>	with raised screw terminal block, 5-pole - 6 mm <sup>2</sup> (4 x 1,5 mm <sup>2</sup> , 4 x 2,5 mm <sup>2</sup> , 4 x 4 mm <sup>2</sup> , 4 x 6 mm <sup>2</sup> )	<b>406 450 01</b>
Abox Pro XT-10 <sup>2</sup>	with raised screw terminal block, 5-pole - 10 mm <sup>2</sup> (4 x 2,5 mm <sup>2</sup> , 4 x 4 mm <sup>2</sup> , 4 x 6 mm <sup>2</sup> , 4 x 10 mm <sup>2</sup> )	<b>410 450 01</b>

**Abox Pro XT SL**

Type	Clamp	Order-No.
Abox Pro XT SL-4 <sup>2</sup>	with 5 raised, screwless 3-wire terminal blocks, Type Wago 221-413 - 4 mm <sup>2</sup>	<b>405 460 01</b>
Abox Pro XT SL-6 <sup>2</sup>	with 5 raised, screwless 3-wire terminal blocks, Type Wago 221-613 - 6 mm <sup>2</sup>	<b>406 460 01</b>

Abox Pro XT / Abox Pro / Abox Pro XT SL



Type	Order-No.
Abox Pro 025-2,5 <sup>2</sup> /sw	402 020 01
Abox Pro 025 AB-2,5 <sup>2</sup> /sw	402 021 01
Abox Pro 040-4 <sup>2</sup> /sw	404 020 01
Abox Pro 040 AB-4 <sup>2</sup> /sw	404 021 01

Dimensions (mm)
87 x 87 x 52
87 x 87 x 52
102 x 102 x 70
102 x 102 x 70



Type	Order-No.
Abox Pro 060-6 <sup>2</sup> /sw	406 020 01
Abox Pro 100-10 <sup>2</sup> /sw	410 020 01
Abox Pro 160-16 <sup>2</sup> /sw	416 020 01
Abox Pro 250-25 <sup>2</sup> /sw	425 020 01
Abox Pro 350-35 <sup>2</sup> /sw	435 020 01



#### Abox Pro SL

Type	Order-No.
Abox Pro SL-4 <sup>2</sup>	404 440 01
Abox Pro SL-6 <sup>2</sup>	406 440 01
Abox Pro SL-10 <sup>2</sup>	410 440 01
Abox Pro SL-16 <sup>2</sup>	416 440 01

Dimensions (mm)
127 x 127 x 75
152 x 152 x 85
182 x 182 x 90
252 x 202 x 120
252 x 252 x 120



#### Abox Pro XT SLK

Type	Clamp	Order-No.
Abox Pro XT SLK-2,5 <sup>2</sup>	with 3 floor-fixed, screwless 3-wire terminal blocks, Wago 221-413 - 2.5 mm <sup>2</sup>	402 460 01
Abox Pro XT SLK-4 <sup>2</sup>	with 5 floor-fixed, screwless 3-wire terminal blocks, Wago 221-413 - 2.5 mm <sup>2</sup>	404 460 01



#### Abox Pro SLK

Type	Order-No.
Abox Pro SLK-2,5 <sup>2</sup>	402 470 01
Abox Pro SLK-4 <sup>2</sup>	404 470 01
Abox Pro SLK-6 <sup>2</sup>	406 470 01

Dimensions (mm)
92 x 92 x 60
102 x 102 x 70
127 x 127 x 75
152 x 152 x 85



### Abox / Abox Pro terminals

Product	terminals	Order-No.
Abox 025/040 KLS-2,5 <sup>2</sup> /4 <sup>2</sup>	5-poles - 4 mm <sup>2</sup>	<b>896 404 01</b>
Abox 060 KLS-6 <sup>2</sup>	5-poles - 6 mm <sup>2</sup>	<b>896 406 01</b>
Abox 100 KLS-10 <sup>2</sup>	5-poles - 10 mm <sup>2</sup>	<b>896 410 01</b>
Abox 160 KLS-16 <sup>2</sup>	5-poles - 16 mm <sup>2</sup>	<b>896 416 01</b>
Abox 250/350 KLS-25 <sup>2</sup> /35 <sup>2</sup>	5-poles - 35 mm <sup>2</sup>	<b>896 435 01</b>
Connecting terminal acc. to DIN EN 60998 (VDE 0613), U <sub>i</sub> =690V		



### Abox / Abox Pro Terminal holder

Product	Order-No.
Abox 025/040 KH 2273 2,5 <sup>2</sup>	<b>896 002 01</b>
Abox 025/040 KH 221 4 <sup>2</sup>	<b>896 003 01</b>
Abox 060 KH 221 4 <sup>2</sup>	<b>896 004 01</b>
Abox 100 KH 221 6 <sup>2</sup>	<b>896 005 01</b>
Abox 100 KH 2006 6 <sup>2</sup>	<b>896 006 01</b>
Abox 160 KH 2010 10 <sup>2</sup>	<b>896 007 01</b>
Abox 250 KH 2016 16 <sup>2</sup>	<b>896 008 01</b>



### Abox / Abox Pro Mounting plate In melamine lined insulating material

Product	For Enclosure	Order-No.
Abox MPI 060	Abox / Abox Pro 060	<b>895 106 01</b>
Abox MPI 100	Abox / Abox Pro 100	<b>895 110 01</b>
Abox MPI 160	Abox / Abox Pro 160	<b>895 116 01</b>
Abox MPI 250	Abox / Abox Pro 250	<b>895 125 01</b>
Abox MPI 350	Abox / Abox Pro 350	<b>895 135 01</b>
Mounting plate in melamine lined insulating material, 2.5 mm thickness, grey incl. fixing screws. For mounting in junction boxes		



### Abox / Abox Pro Standard rail

Product	For Enclosure	Order-No.
Abox 060 NS35	Abox / Abox Pro 060	<b>895 306 01</b>
Abox 100 NS35	Abox / Abox Pro 100	<b>895 310 01</b>
Abox 160/250 NS35	Abox / Abox Pro 160	<b>895 316 01</b>
Abox 250/350 NS35	Abox / Abox Pro 350	<b>895 335 01</b>
Standard rail in accordance with DIN EN 60715, 35 x 7.5 mm, incl. fixing screws. For mounting in junction boxes		



### Abox / Abox Pro Standard rail

Product	For Enclosure	Order-No.
Abox 025 TS15	Abox / Abox Pro 025	<b>895 202 01</b>
Abox 025/2 TS15	Abox 025/2	<b>895 203 01</b>
Abox 040 TS15	Abox / Abox Pro 040	<b>895 204 01</b>



### Abox Partition wall

Product	For Enclosure	Order-No.
Abox TW 025/2	Abox 025/2	<b>895 002 01</b>



### Abox Pro Cast resin bag

Product	Order-No.
GHB Pro 1	Millilitres 250 ml <b>492 521 01</b>
GHB Pro 2	Millilitres 400 ml <b>492 522 01</b>
GHB Pro 3	Millilitres 750 ml <b>492 523 01</b>
GHB Pro 4	Millilitres 1250 ml <b>492 524 01</b>



### Abox Sealing kit

Product	Enclosure	Order-No.
Abox PST 025-100	Set with two sealing caps and screws	<b>895 001 01</b>



### Abox / Abox Pro Standard rail

Product	For Enclosure	Order-No.
Abox 025 TS15	Abox / Abox Pro 025	<b>895 202 01</b>
Abox 025/2 TS15	Abox 025/2	<b>895 203 01</b>
Abox 040 TS15	Abox / Abox Pro 040	<b>895 204 01</b>



### Attachement bushes

Product	Sealing range	Order-No.
AST M16	6 - 10	<b>230 416 01</b>
AST M20	8 - 13,5	<b>230 420 01</b>
AST M25	9 - 18,5	<b>230 425 01</b>
AST M32	13 - 23	<b>230 432 01</b>
AST M40	17 - 30	<b>230 440 01</b>

Mounting socket IP55, with open sealing membrane, thermoplastic elastomer (TPE), for wall thicknesses from 1.5 - 4.0 mm, grey




### Fastening parts kit

Product	Order-No.
KTB 1	<b>896 009 01</b>


Fixing element for mounting of enclosures on cable tray systems with elongated hole width of 7 mm and mesh cable trays with Schnabl GTH 9001 mounts. With pan head screw 4 x 12, material PA6 grey, Set = 10 pieces






Sealing plugs		
Product	Sealing area/mm	Order-No.
VST M16	6 - 10	<b>231 416 01</b>
VST M20	8 - 13,5	<b>231 420 01</b>
VST M25	9 - 16	<b>231 425 01</b>
VST M32	13 - 23	<b>231 432 01</b>
VST M40	17 - 30	<b>231 440 01</b>

Sealing plugs, IP55, with closed sealing membrane, thermoplastic elastomer (TPE), for wall thickness 1.5 - 4.0 mm, for sealing of metric enclosure apertures that are not required, grey




Double-membrane seals		
Product	Sealing area/mm	Order-No.
DMS M16/w	5 - 9	<b>260 116 01</b>
DMS M20/w	7 - 13	<b>260 120 01</b>
DMS M25/w	9 - 17	<b>260 125 01</b>
DMS M32/w	13 - 21	<b>260 132 01</b>

Double membrane seals, IP66, with two sealing membranes, closed, thermoplastic elastomer (TPE), for wall thicknesses 1.5 - 4.5 mm, white



Double-membrane seals		
Product	Sealing area/mm	Order-No.
DMS M16	5 - 9	<b>260 416 01</b>
DMS M20	7 - 13	<b>260 420 01</b>
DMS M25	9 - 17	<b>260 425 01</b>
DMS M32	13 - 21	<b>260 432 01</b>
DMS M40	17 - 28	<b>260 440 01</b>

Double membrane seals, IP66, with two sealing membranes, closed, thermoplastic elastomer (TPE), for wall thicknesses 1.5 - 4.5 mm, grey



Double-membrane seals		
Product	Sealing area/mm	Order-No.
DMS M16/sw	5 - 9	<b>260 016 01</b>
DMS M20/sw	7 - 13	<b>260 020 01</b>
DMS M25/sw	9 - 17	<b>260 025 01</b>
DMS M32/sw	13 - 21	<b>260 032 01</b>
DMS M40/sw	17 - 28	<b>260 040 01</b>

Double membrane seals, IP66, with two sealing membranes, closed, thermoplastic elastomer (TPE), for wall thicknesses 1.5 - 4.5 mm, black



Attachment bushes			
Product	Thread length/mm	Sealing area/mm	Order-No.
KVR M12-MGM	8	2 - 6,5	<b>227 412 01</b>
KVR M16-MGM	8	4 - 10,0	<b>227 416 01</b>
KVR M20-MGM	9	6 - 12,0	<b>227 420 01</b>
KVR M20-GDB/MGM	9	7 - 14,0	<b>227 421 01</b>
KVR M25-MGM	11	9 - 16	<b>227 425 01</b>
KVR M32-MGM	11	11 - 21,0	<b>227 432 01</b>
KVR M40-MGM	11	16 - 28,0	<b>227 440 01</b>
KVR M50-MGM	13	21 - 34,5	<b>227 450 01</b>
KVR M63-MGM	17	30 - 44,5	<b>227 463 01</b>

Cable gland, IP68/IP69\*, with strain relief, polyamide, M\_ x 1.5 mm, with locknut



Attachment bushes			
Product	Thread length/mm	Sealing area/mm	Order-No.
KVR M16-MGM/sw	8	4 - 10	<b>227 016 01</b>
KVR M20-MGM/sw	9	6 - 12	<b>227 020 01</b>
KVR M20-GDB/MGM/sw	9	7 - 14	<b>227 021 01</b>
KVR M25-MGM/sw	11	9 - 16	<b>227 025 01</b>
KVR M32-MGM/sw	11	11 - 21	<b>227 032 01</b>
KVR M40-MGM/sw	11	16 - 28	<b>227 040 01</b>
KVR M50-MGM/sw	13	27 - 34,5	<b>227 050 01</b>

Cable gland, IP68/IP69\*, with strain relief, polyamide, M\_ x 1.5 mm, with locknut



## Mast/pipe fixing set

Product	Order-No.
MABF 65-1 for Abox / Abox Pro, Abox 025, Abox 025-2, Abox 040, Abox Pro 025	896 010 01
MABF 100-1 for Abox / Abox Pro, Abox 025/2, Abox 060, Abox 100, Abox Pro 040, Abox Pro 060, Abox Pro 100	896 020 01
MABF 150-1 for Abox / Abox Pro, Abox 160, Abox Pro 160	896 030 01
MABF 150-2 for Abox / Abox Pro, Abox 250, Abox Pro 250	896 031 01
MABF 215-1 for Abox / Abox Pro, Abox 250, Abox Pro 250, Abox 350, Abox Pro 350	896 040 01



	Enclosure without fittings			Enclosure with fittings			Maximum relative humidity at 40°C	Maximum relative humidity at 25°C (short-term)	Protection rating according to 60529 / VDE 0470-1	Shock-proof as per DIN EN 50102 / DE 0470 Part 100
	Ambient temperature Minimum value	Ambient temperature Maximum value	Ambient temperature Average value over 24 h	Ambient temperature Minimum value	Ambient temperature Maximum value	Ambient temperature Average value over 24 h				
Red Range / HP Junction boxes	-25°C	40°C	35°C	-25°C	35°C	25°C	50%	95%	IP55	IK07
Abox Pro	-35 °C	80 °C	60 °C	-25 °C	35 °C	25 °C	50%	95%	IP66/67/69	IK09
Abox Pro SL	-35 °C	80 °C	60 °C	-25 °C	35 °C	25 °C	50%	95%	IP66/67/69	IK09
Abox Pro XT SL	-35 °C	80 °C	60 °C	-25 °C	35 °C	25 °C	50%	95%	IP68	IK09
Abox Pro XT	-35 °C	80 °C	60 °C	-25 °C	35 °C	25 °C	50%	95%	IP68	IK09
TKS Enclosures	-35 °C	80 °C	60 °C	-25 °C	35 °C	25 °C	50%	95%	IP30	IK07
GEOS Enclosures	-35°C	80°C	60°C	-25°C	40°C	35°C	50%	95%	IP66 / IP67	IK09
RK / RKA Terminal block housings	-25°C	40°C	35°C	-25°C	35°C	25°C	50%	95%	IP65	IK07
AL / ALR Enclosure	-35°C	75°C	60°C	-25°C	40°C	35°C	50%	95%	IP66	IK09
IBT / IBTronic Concrete installation system	-25°C	40°C	35°C	-25°C	35°C	25°C	50%	k.A.	IP30	k.A.
AK Compact Distribution boards	-25°C	40°C	35°C	-25°C	40°C	35°C	50%	95%	IP65	IK07
AKi Compact Distribution boards	-35°C	80°C	60°C	-25°C	40°C	35°C	50%	95%	IP65	IK08
AK Air Distribution boards	-35°C	80°C	60°C	-25°C	40°C	35°C	50%	95%	IP65	IK08
AKL Empty enclosures	-25°C	40°C	35°C	-25°C	40°C	35°C	50%	95%	IP65	IK07
AKi Empty enclosures	-35°C	80°C	60°C	-25°C	40°C	35°C	50%	95%	IP65	IK08
SVi Enclosures	-35°C	80°C	60°C	-25°C	40°C	35°C	50%	95%	IP65 <sup>4)</sup>	IK07
STV / STG Socket combination	-35°C	80°C	60°C	-25°C	40°C	35°C	50%	95%	IP44 <sup>2)</sup>	IK08
GTi Enclosure system	-35°C	80°C	60°C	-25°C	40°C	35°C	50%	95%	IP65	IK08
TK-PS (Polystyrene) Enclosure system	-25°C	40°C	35°C	-25°C	40°C	35°C	50%	95%	IP66	IK07
TK-PC (Polycarbonate) Enclosure system	-35°C	80°C	60°C	-25°C	40°C	35°C	50%	95%	IP66	IK08
TG ABS Enclosure system	-25°C	40°C	35°C	-25°C	40°C	35°C	50%	95%	IP66/ IP67	IK07
TG-PC (Polycarbonate) Gehäusesystem	-35°C	80°C	60°C	-25°C	40°C	35°C	50%	95%	IP66/ IP67	IK08
HW Cavity wall box	-25°C	40°C	35°C	-25°C	40°C	35°C	50%	k.A.	IP30	k.A.

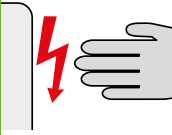
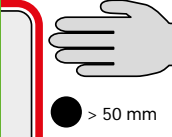
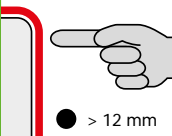
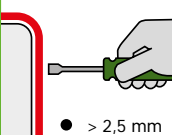
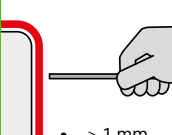
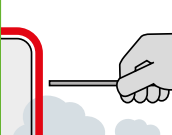
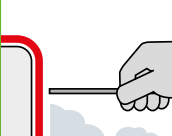
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## Mechanical properties |


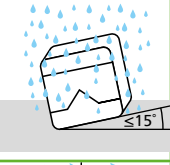
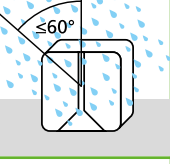

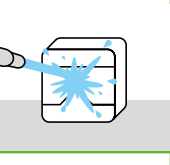
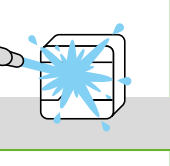
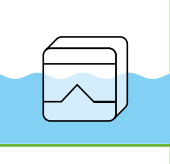
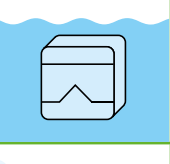
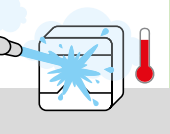
Material		Use in the products	Weak acids	Strong acids	Weak bases	Strong bases	Alcohol	Petrol	Benzene	Mineral oil	Diesel	Ammonia, gaseous (DLG Fokustest)	Vegetable fats	Animal fats	Halogen free	Free of halogens, heavy metals, PVC and silicone	Flammability acc. to DIN EN 60695 (VDE 0471) / UL94
<b>Polystyrene, shock-proof</b>		AK system, RK / RKA, TK-PS	O	Ø	O	O	O	X	X	O	X	k.A.	O	X	ja	ja	650°C / HB
<b>ABS (Acrylonitrile-Butadiene-Styrene)</b>		TG-ABS	O	Ø	O	O	O	X	X	O	O	k.A.	Ø	Ø	ja	ja	650°C / HB
<b>Polycarbonate, glass fibre-reinforced</b>		STV/STG, AK, GTi-system, AKi, TK-PC, ZKi, ZVi, SVi, GEOS Enclosures	O	X	X	X	O	Ø	X	O	Ø	O	O	Ø	ja	ja	960°C / V-2 (5VA*)
<b>Polycarbonate</b>		Abox Pro	O	X	X	X	O	Ø	X	O	Ø	O	O	Ø	ja	ja	960°C / V-0
<b>Polycarbonate</b>		Abox Pro	O	X	X	X	O	Ø	X	O	Ø	O	O	Ø	ja	ja	960°C / V-0
<b>Polycarbonate</b>		TKS, TG-PC, AK, GEOS Cover/Door grey	O	X	X	X	O	Ø	X	O	Ø	O	O	Ø	ja	ja	960°C / V-2 (5VA*)
<b>Polycarbonate, transparent</b>		Cover AK and STV, Cover AKL, AKi, GTi, TK-PC, GEOS Cover / Door transparent, Cover / hinged window TKS	O	X	X	X	Ø	Ø	X	O	Ø	O	O	O	ja	ja	850°C / V-2
<b>Polyethylen</b>		Twist nipple, Red Range	O	O	O	O	O	Ø	X	O	X	k.A.	O	O	ja	ja	650°C / HB
<b>Polyurethan</b>		All types with foamed lid seal	Ø	Ø	Ø	Ø	Ø	Ø	Ø	X	Ø	O	O	O	ja	ja	650°C / ---
<b>Aluminium</b>		AL, ALR	O	Ø	O	O	O	O	O	O	O	k.A.	O	O	ja	ja	---

O = resistant   Ø = partially resistant   X = not resistant

## Overview of the properties of materials |

	IP	Protection level	Definition
	0x	No contact protection, no protection against solid foreign bodies	
	1x	Protection against large area contact (with the hand), protection against foreign bodies > 50 mm Ø	The object probe, a sphere 50 mm in diameter, must not fully penetrate
	2x	Protection against contact with the fingers, protection against foreign bodies >12 mm Ø	The object probe, a sphere 12.5 mm in diameter, must not fully penetrate
	3x	Protection against contact with tools, wires etc. > 2.5 mm Ø, protection against foreign bodies >2.5 mm Ø	The object probe, a sphere 2.5 mm in diameter, must not penetrate at all
	4x	Protection against contact with tools, wires etc. >1 mm Ø, protection against foreign bodies >1 mm Ø	The object probe, a sphere 1.0 mm in diameter, must not penetrate at all
	5x	Contact protection, protection against dust deposits on the inside	The ingress of dust is not totally prevented, but dust must not penetrate in a quantity to interfere with satisfactory operation of the devices
	6x	Full contact protection, protection against ingress of dust	No penetration of dust

## Protection types according to en 60529 (vde 0470-1) |

	IP	Protection level	Definition
	x0	No protection	
	x1	Protection against vertically falling dripping water	Vertically falling drops shall have no harmful effects
	x2	Protection against vertically falling water drops when the enclosure is tilted up to 15°	Vertically falling drops must not have any harmful effects when the enclosure is tilted up to 15° on either side of the vertical
	x3	Protection against falling spray water if angled up to 60° from the vertical	Water sprayed at an angle of up to 60° on either side of the vertical shall have no harmful effects
	x4	Protection against splash water from all directions	Water splashed on the enclosure from any direction shall have no harmful effects
	x5	Protection against jet water from all directions	Water directed at the enclosure from any direction in a jet shall have no harmful effects
	x6	Protection against heavy jet water	Water directed at the enclosure from any direction in a jet shall have no harmful effects
	x7	Protection against temporary immersion in water	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water
	x8	Protection against effects of long-term immersion in water	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water
	x9	Protection against the ingress of water in case of high pressure	Water directed at the enclosure from any direction in a jet under increased pressure shall have no harmful effects

The second digit of the IP code describes the protection of the housing against the harmful ingress of water.



**Class of protection (IP-Code)** acc. to DIN EN 60529 (VDE 0470-1)  
as per respective product standard



Maximum number of **modules**



**Nominal cross section** The biggest permissible wire cross-section that can  
be connected acc. to DIN EN 60998 (VDE 0613) and DIN EN 60999 (VDE 0609)



**Level of protection (IK code)** to mechanical impact acc. to  
DIN EN 50102 (VDE 0470-100)



**Protection class II** operating materials with protective insulation  
acc. to DIN VDE 0100-410



Maximum **voltage DC** (DC voltage) as per product standard  
(system voltage in the PV sector)



**Nominal AC voltage** (AC voltage).  
Highest permissible voltage on the junction as per product standard



**Rated current** (maximum current in continuous operation) as per product standard



Producte are suitable for **protected outdoor areas**.



Producte are suitable for **unprotected outdoor areas**.



The **VDE** symbol stands for the tested safety of the product with regard to electrical, mechanical, thermal and other hazards.



Products with the **c UL us** approval mark have been independently certified by UL (Underwriters Laboratories Inc.). Representative samples of this product have been assessed by UL and comply with the applicable national standards of USA and Canada.



Products with the **UL EU** approval mark have been independently certified by UL (Underwriters Laboratories Inc.). Representative samples of this product have been assessed by UL and comply with the applicable European (EN) or global (IEC) standards.



**DNV**  
The approved products are from the DNV-GL for installation on all classified ships



**DLG focus test:** Ammonia resistance (stable air)



**AK Air Ventilation** elements to prevent accumulation of condensate while maintaining protection class IP65.



**Halogen-free enclosure**, without halogens such as fluorine, chlorine and bromine





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