

Rittal – The System.

Faster – better – everywhere.

AX. KX. **SYSTEM PERFECTION.**

Compact and small enclosures.



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Rittal – The System.

Faster – better – everywhere.



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End-to-end system solutions
for enhanced efficiency.

SYSTEM 4.0

The new product platform for Industry 4.0

Following on from the Blue e+ cooling units and the baying enclosure system VX25, the compact enclosures AX and the small enclosures KX are the final links in the chain. As a result of this product launch, the entire Rittal core portfolio is ideally equipped for the new requirements resulting from digitalisation and plays a key role in optimising customers' value chains.

A system solution for even easier assembly

Simplifying procedures saves time and money. The new generation achieves this by significantly improving details that permanently optimise assembly – from tool-free assembly to removing the need to machine enclosures and maintaining UL approvals, even after replacing standard components with Rittal accessories. All this really helps make control and switchgear engineering processes simpler, faster, more flexible and more reliable.

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COMPACT AND SMALL ENCLOSURES

The baying enclosure system VX25 was the first step into a completely new era of enclosure technology, an era characterised by a whole host of features for far easier installation and perfect integration into state-of-the-art manufacturing processes in line with Industry 4.0 principles. The new compact enclosures AX and small enclosures KX continue on seamlessly from this. The interior installation is largely compatible, which creates completely new engineering and installation synergies.



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Compact enclosures AX



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Wall-mounted enclosures AX
 with 482.6 mm (19") mounting angles, depth-variable from page 43
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Operating housings AX with handle strips from page 46
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Small enclosures KX



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E-Box KX, sheet steel from page 110
 E-Box KX, stainless steel from page 114
 Accessories KX from page 126



Bus enclosures KX, sheet steel from page 120
 Bus enclosures KX, stainless steel from page 121
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1961



2019

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AX. KX. **SYSTEM PERFECTION.**

A wealth of experience for
even greater efficiency.

THE ORIGINAL

Rittal invented the standard enclosure

In 1961, Rittal was the first company in the world to series-produce enclosures. It all started with the compact enclosure AE, the predecessor of the current AX series. Going against industry advice, Rudolf Loh demonstrated a great deal of courage and considerable ingenuity in realising his vision of industrial-scale enclosure manufacture.

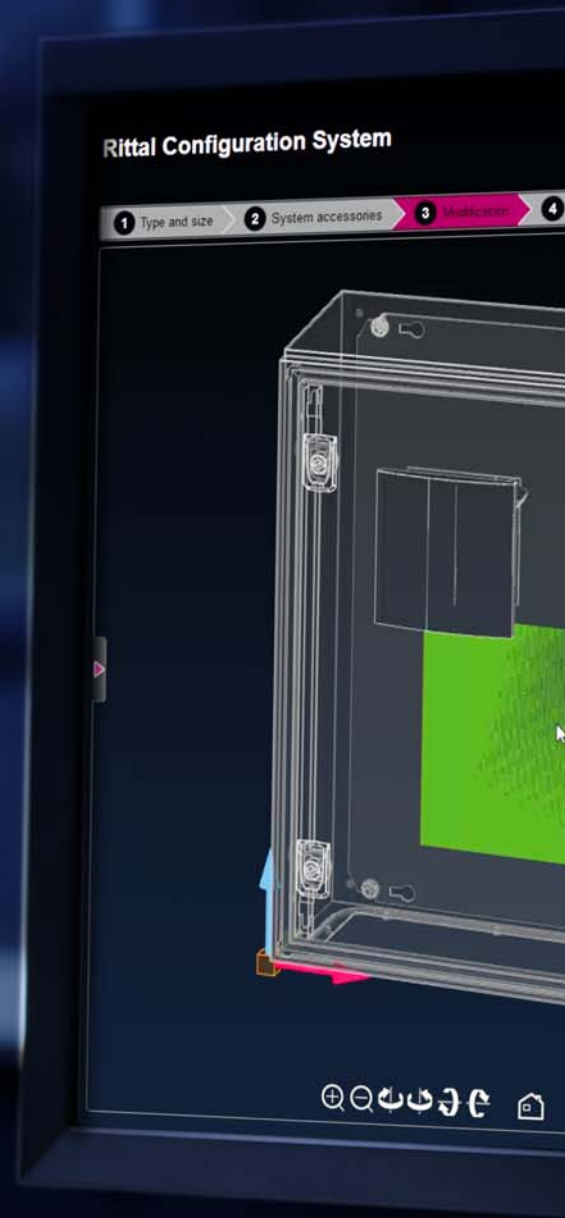
New horizons – AE becomes AX

A modest range of enclosures developed into the world's largest modular system for enclosure manufacture. Since Rittal was founded, the company's impressive innovative strength has spawned numerous enclosure generations, with millions of units in use – always ahead of their time. The latest generation – the AX – is a response to the challenges of the Industry 4.0 era and is the new original.

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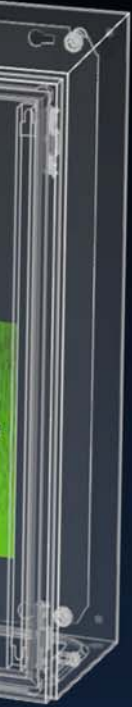




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Digital networking for optimised value creation.

THE SYSTEM CONSULTANT

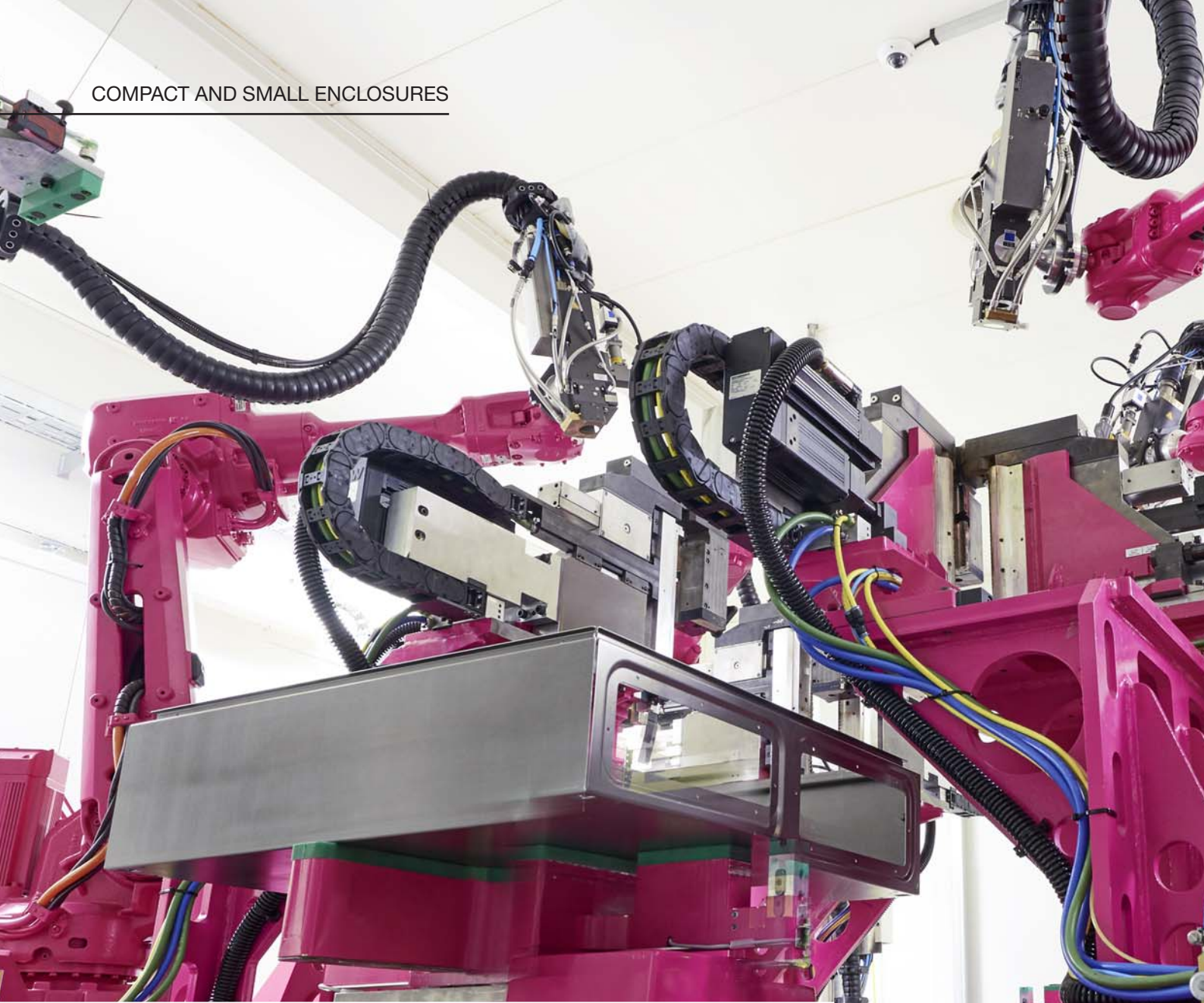
Unrivalled added value from a single source

From engineering and system technology to automation – Rittal offers integrated, end-to-end solutions throughout the value chain. Rittal and Eplan software tools support the entire engineering process all the way through to documentation with high-quality and fully comprehensive offerings. With its coordinated enclosure, power distribution and climate control technology, the modular system from Rittal provides quick and flexible solutions for any challenge anywhere in the world. Thanks to equipment and tools for fully automated or manual machining and assembly, the efficient workflow never stops.

Saving time and boosting efficiency

Rittal data helps save a great deal of time in day-to-day work. It simplifies and facilitates design planning by seamlessly providing validated CAD data for all Rittal components. The resulting engineering data optimises planning certainty. Even more efficient planning is possible with EPLAN Pro Panel, the leading software solution for project planning and 3D enclosure design. What's more, the EPLAN Data Portal provides detailed CAD data for configuring the AX and KX.





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AX. KX. **SYSTEM PERFECTION.**

State-of-the-art production technology for a secure future.

THE TECHNOLOGY LEADER

Compact enclosures based on and geared towards Industry 4.0

A dedicated production plant has been built in Haiger for our new compact enclosures. A sum of 250 million euros has been invested in the world's most state-of-the-art production facility for compact and small enclosures based on Industry 4.0 criteria. The plant's highly automated production management will ensure the permanent availability of the standard portfolio.

AX is ideal for automated machining

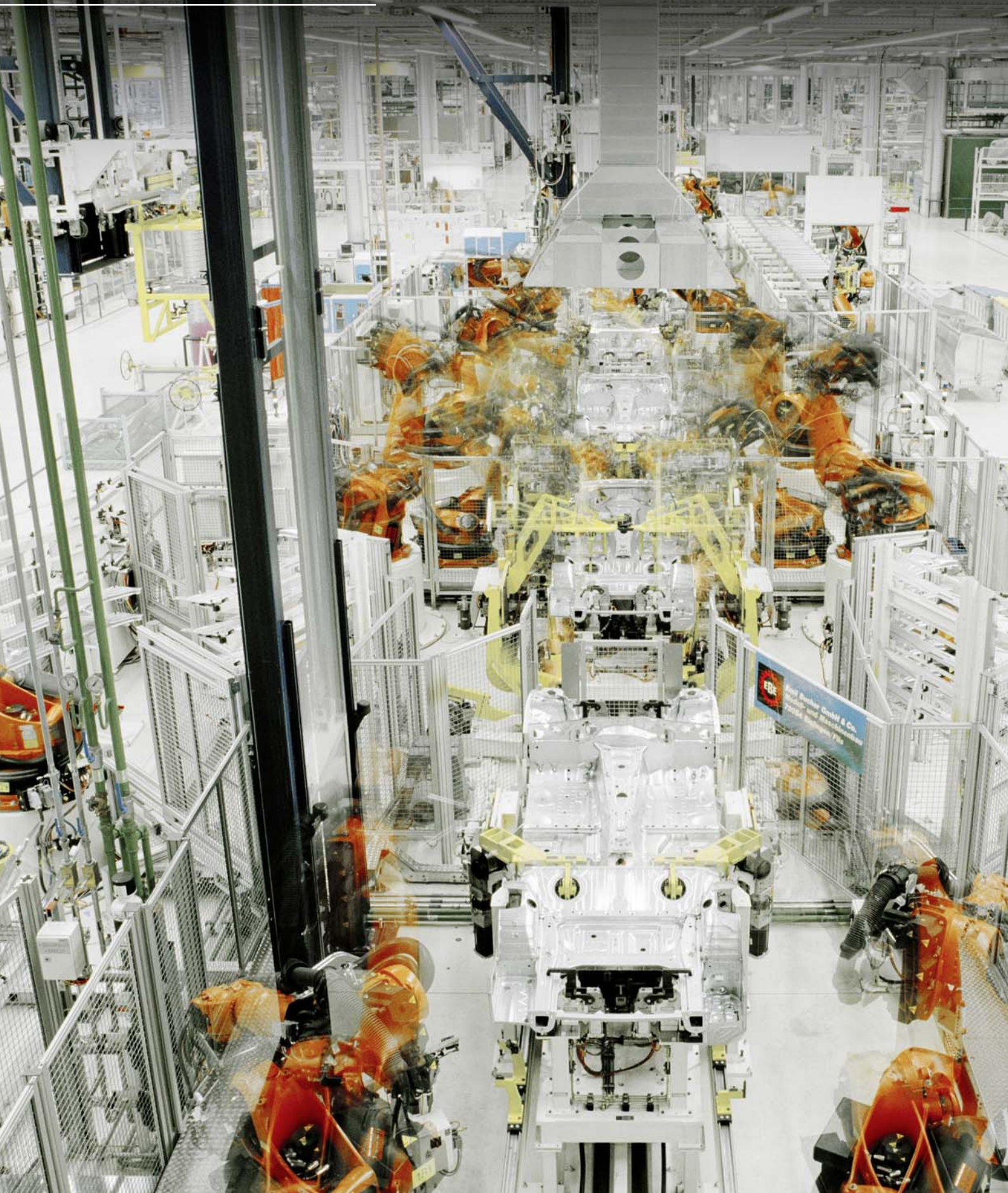
This once again makes Rittal an industry pioneer. In addition to improving its own flexibility, the company also wanted to develop a high level of efficiency that could be carried right through to the customer's production process. Every enclosure leaving the newly built, highly automated Rittal plant in Haiger satisfies all the prerequisites for integration into downstream automated and mechanical processes. Thanks to the packaging concept developed specially for the AX and KX, panels can simply be taken out without having to be dismantled and then fed directly into our customers' production process.

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COMPACT AND SMALL ENCLOSURES



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AX. KX. SYSTEM PERFECTION.

Specific solutions for any application.

THE INDUSTRY INSIDER

Solutions for every industry – around the globe

The AX and KX could not be more flexible and there's a good reason for this. Rittal knows all about the challenges digitalisation is throwing up for the various markets. From plastics, chemicals, textiles and foodstuffs to automotive and mechanical engineering, Rittal meets the specific enclosure requirements of each and every sector of industry.

Internationally recognised approvals and certifications

Rittal enclosures are ideal for global use across a variety of industries. Internationally recognised approvals make it much easier to put the AX to quick and flexible use in any country the world over. The highest quality standards ensure reliability and a long service life, even under extreme conditions. Compliance with global standards and thus excellent future-proof credentials are ensured by stringent testing according to international regulations and regular production inspections by external test institutes.

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AX. KX. SYSTEM PERFECTION.

Global logistics for rapid availability.

THE LOGISTICS PARTNER

Delivery off the shelf – within 24 hours

International customers expect short delivery times and flexibility when it comes to quantities. Rittal has the necessary logistics in place for a rapid response worldwide. The AX, the KX and the associated accessories are normally available anywhere in Europe within 24 hours. This makes customers' production operations far more flexible and also reduces the pressure on warehousing. Fully digitised workflows throughout the design and machining process create added value within the supply chain itself.

Global Rittal service network with 150 sites

AX and KX users can rely on the worldwide Rittal service network. A total of 1,000 trained Rittal service technicians are available at 150 service sites around the globe. In addition to maintenance and repair tasks, they also keep an eye out for potential savings. The global Rittal service centre can be contacted 24 hours a day, 365 days a year.

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Multiple benefits for new opportunities.

THE VALUE ADDER

Simple

Fully digitised processes with top-quality 3D data and QR codes on panels to be machined allow for seamless monitoring and simplify the order process – from the receipt of goods through to completion. Streamlining the number of parts makes engineering easier while maintaining the same diversity of dimensions.

Flexible

Modular designs and optimised cut-outs/sizes help to better utilise the space inside the enclosure. Rails and integrated locators simplify interior installation. Work is also made easier by being able to machine panels supplied loose immediately and install doors without needing tools. Reducing the number of parts simplifies logistics and warehousing.

Fast

The new highly automated plant in Haiger ensures quick delivery and permanent availability (normally within 24 hours anywhere in Europe). All panels are supplied loose and assembly is a largely tool-free process. The new wall mounting bracket can be fixed in place from the outside in next to no time.

Safe

Protection classes and approvals improve reliability. Integrated locators throughout the housing ensure the interior installation rails can be precisely positioned and securely fastened – even under dynamic loads. The protection category is maintained after wall mounting brackets are attached.

Top customer benefits



Compact enclosures AX

Basic enclosure AX	Wall-mounted enclosures AX with 482.6 mm (19") mounting angles, depth-variable	Operating housings AX with handle strips	
All enclosure panels may be taken directly from the packaging, without dismantling, and machined		The aluminium front panel is easily removed and machined	
Interior installation on a 25 mm pitch pattern; no machining required	The 482.6 mm (19") mounting angles support depth-variable mounting on a 25 mm pitch pattern	Interior installation on a 25 mm pitch pattern; no machining required	
Wall mounting brackets are easily secured from the outside with a self-tapping screw while retaining the UL approval	Wall mounting brackets are easily secured from the outside with a self-tapping screw	The support arm may be fitted directly without machining	
A QR code on the enclosure, door and mounting plate allows seamless monitoring, from receipt of incoming goods through to delivery of the finished product		A QR code on the enclosure and door allows seamless monitoring, from receipt of incoming goods through to delivery of the finished product	
Simple earthing, even retrospectively, using machined keyholes in the mounting plate and perforated door strip	Simple earthing, even retrospectively, using machined keyholes in the perforated door strip	Simple earthing with a continuous M8 earthing connection	
The door and cam lock are quickly fitted with no need for tools		Service access optionally from the front or rear	
Up to 33% larger gland plates support cable entry with ever-higher packing densities	482.6 mm (19") mounting angles prefitted and ready to use	Cut-out for support arm connection in the enclosure roof, may also be used for the pedestal by rotating the enclosure	
from page 20	from page 43	from page 44	

Top customer benefits



Small enclosures KX			
Terminal boxes KX	E-Box KX	Bus enclosures KX	
All enclosure panels may be taken directly from the packaging, without dismantling, and machined			
The support rails may optionally be fitted on the integral perforated mounting strip or, to maximise the enclosure depth, directly onto the rear wall of the enclosure	The mounting plate is simply slotted in from the front and secured directly in front of the rear panel in a space-saving solution	The support rails may optionally be fitted on the integral perforated mounting strip or, to maximise the enclosure depth, directly onto the rear wall of the enclosure	
Wall mounting brackets are easily secured from the outside with a self-tapping screw			
A QR code on the enclosure, door or cover and mounting plate allows seamless monitoring, from receipt of incoming goods through to delivery of the finished product			
Earthing points accessible from the front facilitate fast, secure mounting of the earth straps			
The mini cam lock may be fitted without using tools, and ensures that the cover is securely seated and centred when latching	The 180° hinges are already prefitted on the door ready to use, the cam locks may be attached without the use of tools, and the door is easily fitted	The 180° hinges are already prefitted on the door ready to use, the mini cam locks may be attached without the use of tools, and the door is easily fitted	
from page 94	from page 106	from page 116	



COMPACT ENCLOSURES AX – MORE **EFFICIENT**

Customised interior installation without machining and a wall-mounting system that is revolutionary in its simplicity save even more time.





Flexibility

Integrated locators in the housing enable the precise, time-saving incorporation of the interior installation rails used to fit out enclosures with punched sections with mounting flanges and accessories from Rittal.

Time saving

Thanks to the process-optimised packaging concept, production can get started straight away because all panels and cam locks are delivered disassembled, thereby removing the need for dismantling.

Stability

Interior installation rails that can be mechanically locked in place at a range of heights using the consistent pattern of integrated locators provide added stability, especially in the case of dynamic loads.





Ample space

The gland plate is up to 33 per cent larger, which provides more space for cable entry.



Reliability

The folded edge of the enclosure has a deliberately flat design that offers a generous and secure bearing surface for the seamless PU foam gasket and thus helps maintain the protection category (up to IP 66) and protection class IK 10.



Potential equalisation

Special holes in the gland plate automatically ensure potential equalisation during screw-fastening, which saves time and materials as well as improving safety.

Easy assembly

Tool-free door assembly saves even more time. Once the door has been positioned, the hinge pin simply needs to be pressed in to complete the process.

Flexibility

The AX door hinge can be switched to the other side with no need for machining, even on double-door enclosures. This makes it quick and easy to switch the lockable door, and can also free up additional space by allowing the installation of components/accessories on the door.

Time saving

Supplying the cam locks loose eliminates potential obstructions when machining the door and removes the need for time-consuming dismantling work beforehand.

Extra security

The stable rod locking mechanism (fitted) with three locking points offers additional security on AX enclosures in a height of 1200 mm or more.

Fast installation

The lock benefits from fast, tool-free installation. Following insertion, it simply needs to be locked in place and it's ready.



Larger surfaces

Thanks to its compatibility with Rittal system accessories, the perforated door strip with U-section and system punching in a versatile 25 mm pitch pattern makes it quick and easy to create more installation space without machining the door.



A good fit

Even when heavy components are mounted on doors, the runner on the perforated door strip ensures precise door positioning so as to maintain the protection category.



Making life easier

Easy dismantling of the fastening screw on the enclosure hinge makes it quick and straightforward to switch the door hinge to the other side. The door is not pre-installed, so there is no dismantling to add to the workload.



Wide angle

The normal door opening angle of 130° can be increased if necessary by replacing the standard hinge with a 180° hinge from the Rittal accessories portfolio.



Convenient fixing

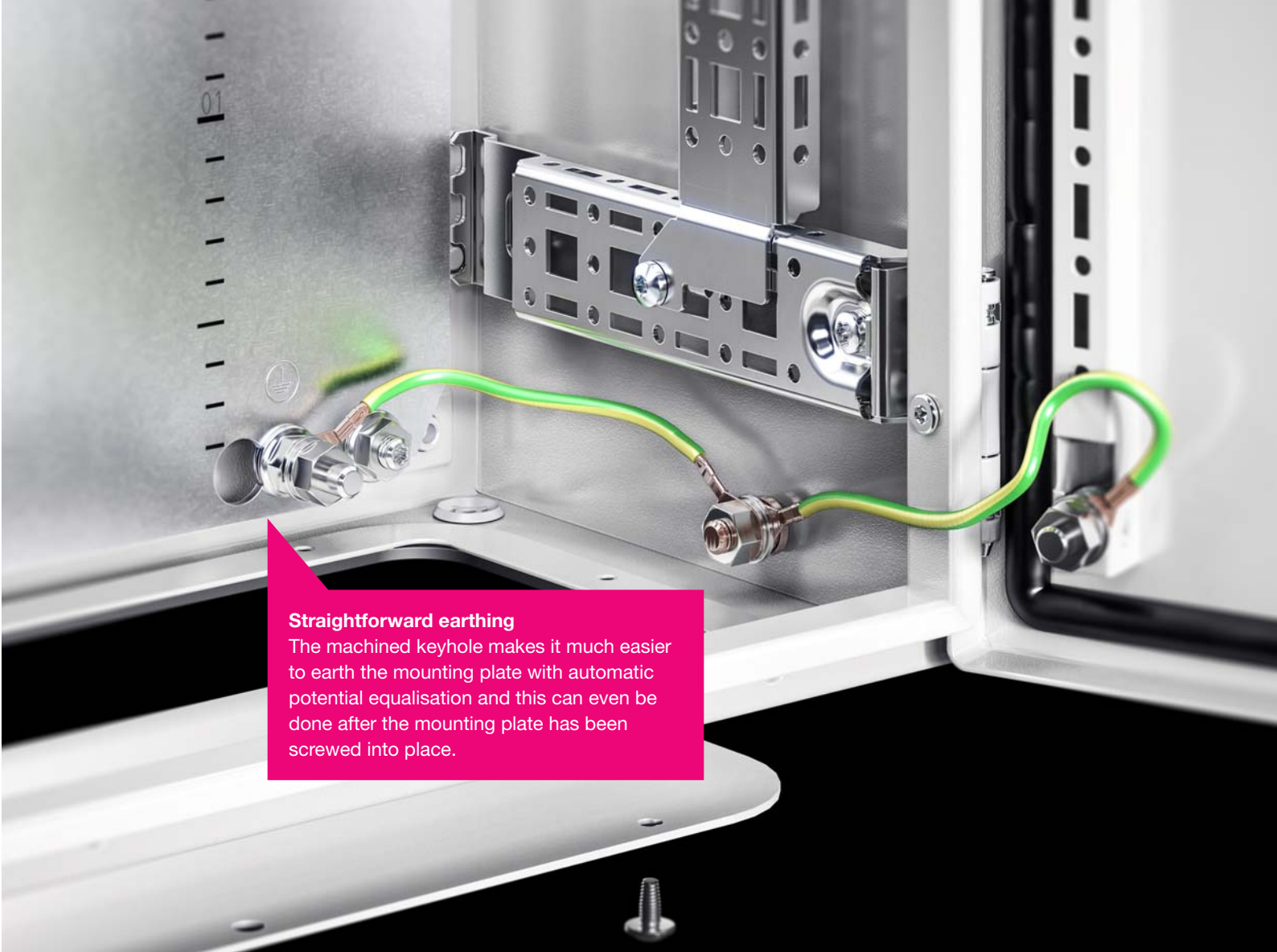
The mounting plate is easy to pre-attach and secure firmly in place simply by inserting it from above.



Full utilisation of space

The option of screw-fastening the mounting plate directly onto the rear panel can increase the overall installation depth by 8 mm.





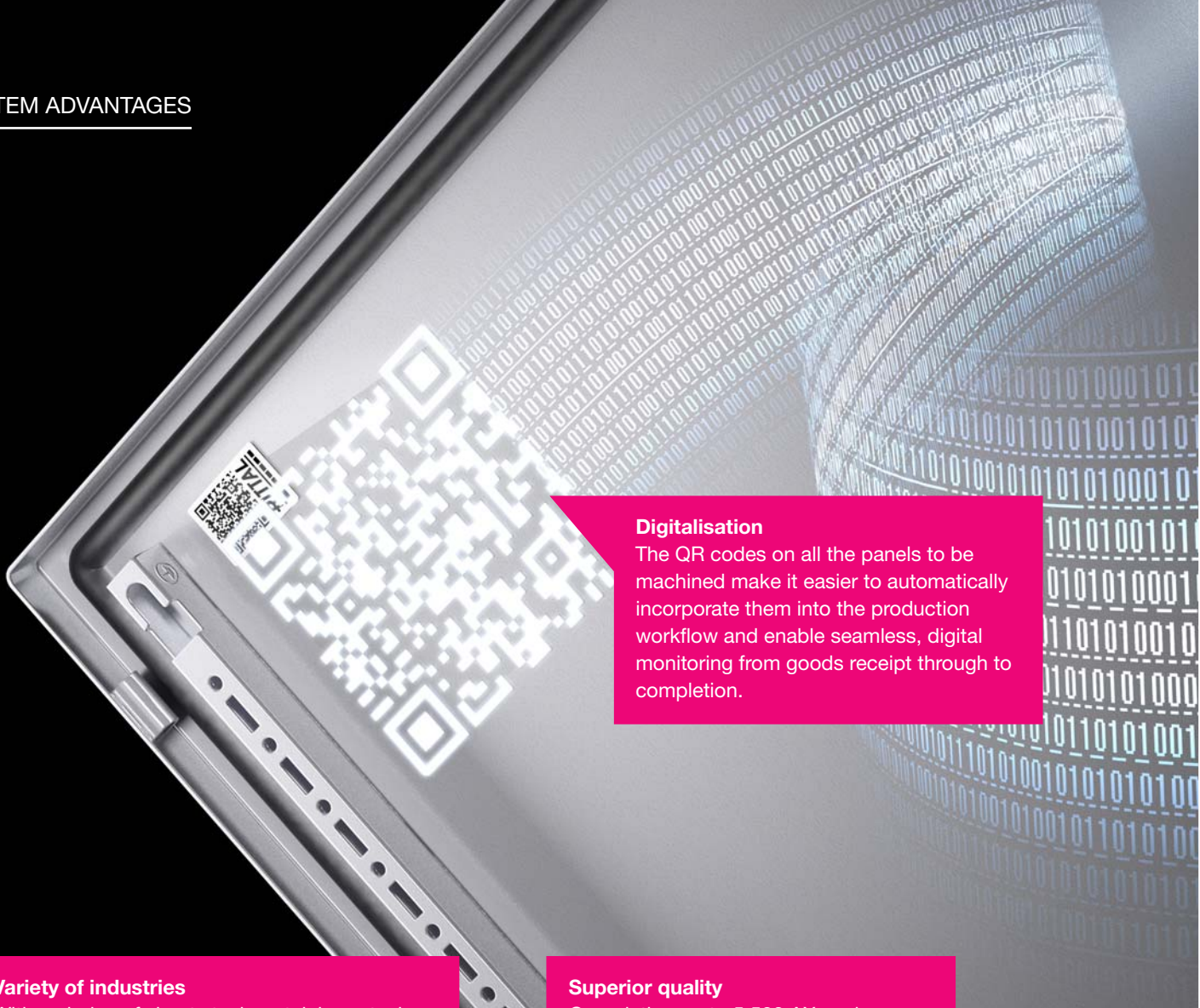
Straightforward earthing

The machined keyhole makes it much easier to earth the mounting plate with automatic potential equalisation and this can even be done after the mounting plate has been screwed into place.



Easy assembly

Thanks to the series-standard eyelet in the rear panel, the wall mounting bracket can be quickly screwed into place from the outside using a self-tapping screw – without a lock nut on the inside. The high protection category is maintained without any restrictions.



Digitalisation

The QR codes on all the panels to be machined make it easier to automatically incorporate them into the production workflow and enable seamless, digital monitoring from goods receipt through to completion.

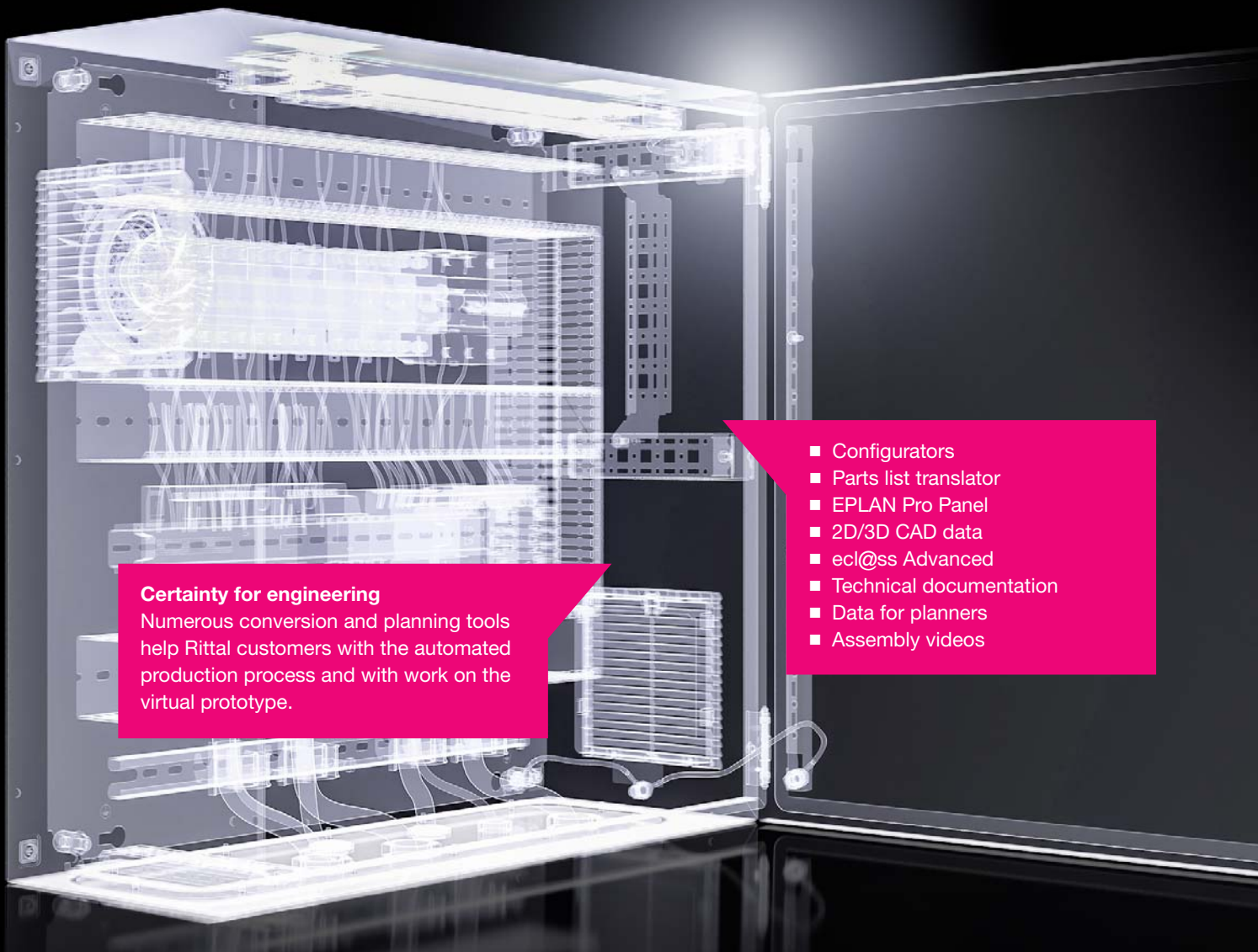
Variety of industries

With a choice of sheet steel or stainless steel, the AX can be used in any sector of industry – at any location, in any climate or environment and in a whole host of custom applications.

Superior quality

Completing up to 5,500 AX enclosures per day, the world's most state-of-the-art Industry 4.0 mass production operation for compact enclosures ensures consistently high quality.





Certainty for engineering
Numerous conversion and planning tools help Rittal customers with the automated production process and with work on the virtual prototype.

- Configurators
- Parts list translator
- EPLAN Pro Panel
- 2D/3D CAD data
- ecl@ss Advanced
- Technical documentation
- Data for planners
- Assembly videos



Corrosion protection
The three-stage surface treatment promises optimum corrosion protection and is resistant to mineral oils, lubricants, machining emulsions and several solvents.

- 1 Nanoceramic treatment
- 2 Electrophoretic dipcoat priming
- 3 Powder coating

Compact and small enclosures



Quality assurance
Rittal has its own accredited test laboratory, which repeatedly simulates the toughest conditions of all relevant sectors and applications so as to ensure high AX quality on a continuous and lasting basis.

Compact enclosures AX

Basic enclosure AX, sheet steel



System accessories Page 62 AX stainless steel Page 38

Material:

- Enclosure: Sheet steel
- Door: Sheet steel, all-round foamed-in PU seal

Surface finish:

- Enclosure and door: Dipcoat-primed, powder-coated on the outside, textured paint
- Mounting plate: Zinc-plated

Colour:

- RAL 7035

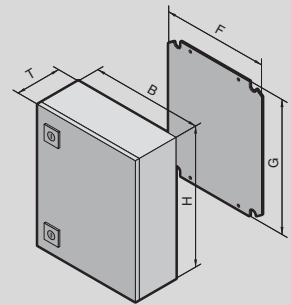
Supply includes:

- Enclosure with door(s)
 - Gland plate(s) in enclosure base
 - Mounting plate
 - Perforated door strip
 - Lock: 3 mm double-bit
- Please note the product-specific scope of supply.

Approvals:

- UL
- cUL
- CSA

Further approvals can be found on the Internet.



Compact enclosures AX

Basic enclosure AX, sheet steel

Width (B) mm	Packs of	300	300	Page
Height (H) mm		300	400	
Depth (T) mm		210	210	
Mounting plate width (F) mm		250	250	
Mounting plate height (G) mm		275	375	
Material thickness – enclosure mm		1.25	1.25	
Material thickness – door mm		1.5	1.5	
Material thickness – mounting plate mm		2.0	2.0	
Model No.	1 pc(s).	1033.000	1034.000	
Weight, approx. kg		7.0	8.8	
Protection category IP to IEC 60 529		IP 66	IP 66	
Protection category NEMA		NEMA 4	NEMA 4	
Product-specific scope of supply				
Door(s)		1	1	
Door hinged on the right, may be swapped to the left		■	■	
Gland plate, size		1	1	
Gland plates, qty		1	1	
Cam lock		1	1	
Accessories				
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 15 mm	4 pc(s).	2508.020	2508.020	74
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 40 mm	4 pc(s).	2503.020	2503.020	74
Wall angle	4 pc(s).	2505.510	2505.510	75
Pole clamp	2 pc(s).	2584.100	2584.100	76
Plastic cable gland plate for cable entry, modular	1 pc(s).	2561.200	2561.200	87
Plastic gland plate with membranes	1 pc(s).	2561.300	2561.300	88
Metal gland plate with knockouts	1 pc(s).	2571.100	2571.100	89
Cable entry, modular		see page	see page	85
Rail for interior installation	4 pc(s).	2393.210	2393.210	77
Support strips		–	–	
Punched section with mounting flange 14 x 39 mm, installation in the height	4 pc(s).	–	8619.700	78
Punched section with mounting flange 14 x 39 mm, installation in the door		–	–	
LED system light		–	–	
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	67
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	2537.200	67
Mini-comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	2537.300	2537.300	67
Comfort handle AX for lock inserts or semi-cylinders		–	–	
Comfort handle AX with security lock insert, lock E1		–	–	
Comfort handle AX for padlock and lock inserts or semi-cylinders		–	–	
Lock inserts		see page	see page	68
Viewing window, depth 36 mm		–	–	
Viewing window, depth 62 mm		–	–	
Operating panel		–	–	
180° hinge	3 pc(s).	2449.010	2449.010	69
Door stay	5 pc(s).	2519.010	2519.010	71
Sheet steel wiring plan pockets, width-variable		–	–	
Plastic wiring plan pockets		see page	see page	71
Wiring plan pockets with transparent pouch		see page	see page	71
Base/plinth corner pieces with base/plinth trim panel, front and rear, 100 mm		–	–	
Base/plinth trim panels, side, 100 mm		–	–	
Base/plinth corner pieces with base/plinth trim panel, front and rear, 200 mm		–	–	
Base/plinth trim panels, side, 200 mm		–	–	
Eyebolts		–	–	
Rain canopy	1 pc(s).	2361.010	2361.010	72
Dust guard trim	1 pc(s).	2426.500	2426.500	72
Earth straps		see page	see page	83
Baying kit	1 pc(s).	1199.100	1199.100	64
Cable gland, brass		see page	see page	91
Cable gland, polyamide		see page	see page	91

Compact enclosures AX

Basic enclosure AX, sheet steel

Width (B) mm	Packs of	380	380	380	380	400	400	Page
Height (H) mm		300	380	600	600	500	800	
Depth (T) mm		210	210	210	350	210	300	
Mounting plate width (F) mm		330	330	330	330	350	345	
Mounting plate height (G) mm		275	355	575	575	475	775	
Material thickness – enclosure mm		1.25	1.25	1.25	1.5	1.25	1.5	
Material thickness – door mm		1.5	1.5	1.5	1.5	1.5	2.0	
Material thickness – mounting plate mm		2.0	2.0	2.5	2.5	2.0	2.5	
Model No.	1 pc(s).	1031.000	1380.000	1038.000	1338.000	1045.000	1037.000	
Weight, approx. kg		7.5	9.8	15.6	19.4	13.0	26.2	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Door hinged on the right, may be swapped to the left		■	■	■	■	■	■	
Gland plate, size		2	2	2	5	2	5	
Gland plates, qty		1	1	1	1	1	1	
Cam lock		1	1	2	2	2	2	
Accessories								
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 15 mm	4 pc(s).	2508.020	2508.020	2508.020	2508.020	2508.020	2508.020	74
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 40 mm	4 pc(s).	2503.020	2503.020	2503.020	2503.020	2503.020	2503.020	74
Wall angle	4 pc(s).	2505.510	2505.510	2505.510	2505.510	2505.510	2505.510	75
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	76
Plastic cable gland plate for cable entry, modular	1 pc(s).	2562.200	2562.200	2562.200	2565.200	2562.200	2565.200	87
Plastic gland plate with membranes	1 pc(s).	2562.300	2562.300	2562.300	2565.300	2562.300	2565.300	88
Metal gland plate with knockouts	1 pc(s).	2572.100	2572.100	2572.100	2575.100	2572.100	2575.100	89
Cable entry, modular		see page	see page	see page	see page	see page	see page	85
Rail for interior installation	4 pc(s).	2393.210	2393.210	2393.210	2393.350	2393.210	2393.300	77
Support strips	20 pc(s).	4599.100	4599.100	4599.100	4599.100	4694.000	4694.000	70
Punched section with mounting flange 14 x 39 mm, installation in the height	4 pc(s).	–	–	–	–	8619.710	8619.730	78
Punched section with mounting flange 14 x 39 mm, installation in the door		–	–	–	–	–	–	
LED system light	1 pc(s).	–	–	–	–	2500.100	2500.100	92
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2537.100	2537.100	2537.100	2537.100	67
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	2537.200	2537.200	2537.200	2537.200	2537.200	67
Mini-comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	2537.300	2537.300	2537.300	2537.300	2537.300	2537.300	67
Comfort handle AX for lock inserts or semi-cylinders		–	–	–	–	–	–	
Comfort handle AX with security lock insert, lock E1		–	–	–	–	–	–	
Comfort handle AX for padlock and lock inserts or semi-cylinders		–	–	–	–	–	–	
Lock inserts		see page	see page	see page	see page	see page	see page	68
Viewing window, depth 36 mm		–	–	–	–	–	–	
Viewing window, depth 62 mm		–	–	–	–	–	–	
Operating panel	1 pc(s).	2741.010	2742.010	2743.010	2743.010	–	–	65
180° hinge	3 pc(s).	2449.010	2449.010	2449.010	2449.010	2449.010	2449.010	69
Door stay	5 pc(s).	2519.010	2519.010	2519.010	2519.010	2519.010	2519.010	71
Sheet steel wiring plan pockets, width-variable	1 pc(s).	–	–	–	–	2515.200	2515.200	71
Plastic wiring plan pockets		see page	see page	see page	see page	see page	see page	71
Wiring plan pockets with transparent pouch		see page	see page	see page	see page	see page	see page	71
Base/plinth corner pieces with base/plinth trim panel, front and rear, 100 mm		–	–	–	–	–	–	
Base/plinth trim panels, side, 100 mm		–	–	–	–	–	–	
Base/plinth corner pieces with base/plinth trim panel, front and rear, 200 mm		–	–	–	–	–	–	
Base/plinth trim panels, side, 200 mm		–	–	–	–	–	–	
Eyebolts		–	–	–	–	–	–	
Rain canopy	1 pc(s).	2472.010	2472.010	2472.010	–	–	–	72
Dust guard trim	1 pc(s).	2426.500	2426.500	2426.500	2426.500	2426.500	2426.500	72
Earth straps		see page	see page	see page	see page	see page	see page	83
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass		see page	see page	see page	see page	see page	see page	91
Cable gland, polyamide		see page	see page	see page	see page	see page	see page	91

Compact enclosures AX

Basic enclosure AX, sheet steel

Width (B) mm	Packs of	500	500	500	600	600	600	Page
Height (H) mm		500	500	700	380	380	600	
Depth (T) mm		210	300	250	210	350	210	
Mounting plate width (F) mm		450	450	450	550	550	550	
Mounting plate height (G) mm		475	475	675	355	355	575	
Material thickness – enclosure mm		1.25	1.5	1.5	1.25	1.5	1.5	
Material thickness – door mm		1.5	1.5	2.0	1.5	1.5	1.5	
Material thickness – mounting plate mm		2.5	2.5	2.5	2.5	2.5	2.5	
Model No.	1 pc(s).	1050.000	1350.000	1057.000	1039.000	1339.000	1060.000	
Weight, approx. kg		16.8	19.6	31.2	15.4	20.0	22.8	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Door hinged on the right, may be swapped to the left		■	■	■	■	■	■	
Gland plate, size		3	6	3	4	7	4	
Gland plates, qty		1	1	1	1	1	1	
Cam lock		2	2	2	1	1	2	
Accessories								
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 15 mm	4 pc(s).	2508.020	2508.020	2508.020	2508.020	2508.020	2508.020	74
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 40 mm	4 pc(s).	2503.020	2503.020	2503.020	2503.020	2503.020	2503.020	74
Wall angle	4 pc(s).	2505.510	2505.510	2505.510	2505.510	2505.510	2505.510	75
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	76
Plastic cable gland plate for cable entry, modular	1 pc(s).	2563.200	2566.200	2563.200	2564.200	2567.200	2564.200	87
Plastic gland plate with membranes	1 pc(s).	2563.300	2566.300	2563.300	2564.300	2567.300	2564.300	88
Metal gland plate with knockouts	1 pc(s).	2573.100	2576.100	2573.100	2574.100	2577.100	2574.100	89
Cable entry, modular		see page	see page	see page	see page	see page	see page	85
Rail for interior installation	4 pc(s).	2393.210	2393.300	2393.250	2393.210	2393.350	2393.210	77
Support strips	20 pc(s).	4695.000	4695.000	4695.000	4696.000	4696.000	4696.000	70
Punched section with mounting flange 14 x 39 mm, installation in the height	4 pc(s).	8619.710	8619.710	8619.760	–	–	8619.720	78
Punched section with mounting flange 14 x 39 mm, installation in the door		–	–	–	–	–	–	
LED system light	1 pc(s).	2500.100	2500.100	2500.100	2500.100	2500.100	2500.100	92
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2537.100	2537.100	2537.100	2537.100	67
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	2537.200	2537.200	2537.200	2537.200	2537.200	67
Mini-comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	2537.300	2537.300	2537.300	2537.300	2537.300	2537.300	67
Comfort handle AX for lock inserts or semi-cylinders		–	–	–	–	–	–	
Comfort handle AX with security lock insert, lock E1		–	–	–	–	–	–	
Comfort handle AX for padlock and lock inserts or semi-cylinders		–	–	–	–	–	–	
Lock inserts		see page	see page	see page	see page	see page	see page	68
Viewing window, depth 36 mm	1 pc(s).	2733.010	2733.010	–	2730.010	2730.010	2731.010	65
Viewing window, depth 62 mm	1 pc(s).	2763.010	2763.010	–	2760.010	2760.010	2761.010	65
Operating panel	1 pc(s).	2745.010	2745.010	–	–	–	2746.010	65
180° hinge	3 pc(s).	2449.010	2449.010	2449.010	2449.010	2449.010	2449.010	69
Door stay	5 pc(s).	2519.010	2519.010	2519.010	2519.010	2519.010	2519.010	71
Sheet steel wiring plan pockets, width-variable	1 pc(s).	2515.200	2515.200	2515.200	2515.300	2515.300	2515.300	71
Plastic wiring plan pockets		see page	see page	see page	see page	see page	see page	71
Wiring plan pockets with transparent pouch		see page	see page	see page	see page	see page	see page	71
Base/plinth corner pieces with base/plinth trim panel, front and rear, 100 mm		–	–	–	–	–	–	
Base/plinth trim panels, side, 100 mm		–	–	–	–	–	–	
Base/plinth corner pieces with base/plinth trim panel, front and rear, 200 mm		–	–	–	–	–	–	
Base/plinth trim panels, side, 200 mm		–	–	–	–	–	–	
Eyebolts		–	–	–	–	–	–	
Rain canopy	1 pc(s).	2362.010	–	–	2473.010	–	2473.010	72
Dust guard trim	1 pc(s).	2426.500	2426.500	2426.500	2426.500	2426.500	2426.500	72
Earth straps		see page	see page	see page	see page	see page	see page	83
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass		see page	see page	see page	see page	see page	see page	91
Cable gland, polyamide		see page	see page	see page	see page	see page	see page	91

Compact enclosures AX

Basic enclosure AX, sheet steel

Width (B) mm	Packs of	600	600	600	600	600	600	Page
Height (H) mm		600	600	760	760	800	800	
Depth (T) mm		250	350	210	350	250	400	
Mounting plate width (F) mm		550	550	550	550	545	545	
Mounting plate height (G) mm		575	575	735	735	775	775	
Material thickness – enclosure mm		1.5	1.5	1.5	1.5	1.5	1.5	
Material thickness – door mm		1.5	1.5	2.0	2.0	2.0	2.0	
Material thickness – mounting plate mm		2.5	2.5	2.5	2.5	2.5	2.5	
Model No.	1 pc(s).	1054.000	1360.000	1076.000	1376.000	1058.000	1059.000	
Weight, approx. kg		24.8	28.4	32.1	36.0	33.6	39.0	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Door hinged on the right, may be swapped to the left		■	■	■	■	■	■	
Gland plate, size		4	7	4	7	4	7	
Gland plates, qty		1	1	1	1	1	1	
Cam lock		2	2	2	2	2	2	
Accessories								
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 15 mm	4 pc(s).	2508.020	2508.020	2508.020	2508.020	2508.020	2508.020	74
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 40 mm	4 pc(s).	2503.020	2503.020	2503.020	2503.020	2503.020	2503.020	74
Wall angle	4 pc(s).	2505.510	2505.510	2505.510	2505.510	2505.510	2505.510	75
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	76
Plastic cable gland plate for cable entry, modular	1 pc(s).	2564.200	2567.200	2564.200	2567.200	2564.200	2567.200	87
Plastic gland plate with membranes	1 pc(s).	2564.300	2567.300	2564.300	2567.300	2564.300	2567.300	88
Metal gland plate with knockouts	1 pc(s).	2574.100	2577.100	2574.100	2577.100	2574.100	2577.100	89
Cable entry, modular		see page	see page	see page	see page	see page	see page	85
Rail for interior installation	4 pc(s).	2393.250	2393.350	2393.210	2393.350	2393.250	2393.400	77
Support strips	20 pc(s).	4696.000	4696.000	4696.000	4696.000	4696.000	4696.000	70
Punched section with mounting flange 14 x 39 mm, installation in the height	4 pc(s).	8619.720	8619.720	8619.790	8619.790	8619.730	8619.730	78
Punched section with mounting flange 14 x 39 mm, installation in the door		–	–	–	–	–	–	
LED system light	1 pc(s).	2500.100	2500.100	2500.100	2500.100	2500.110	2500.110	92
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2537.100	2537.100	2537.100	2537.100	67
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	2537.200	2537.200	2537.200	2537.200	2537.200	67
Mini-comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	2537.300	2537.300	2537.300	2537.300	2537.300	2537.300	67
Comfort handle AX for lock inserts or semi-cylinders		–	–	–	–	–	–	
Comfort handle AX with security lock insert, lock E1		–	–	–	–	–	–	
Comfort handle AX for padlock and lock inserts or semi-cylinders		–	–	–	–	–	–	
Lock inserts		see page	see page	see page	see page	see page	see page	68
Viewing window, depth 36 mm	1 pc(s).	2731.010	2731.010	2732.010	2732.010	–	–	65
Viewing window, depth 62 mm	1 pc(s).	2761.010	2761.010	2762.010	2762.010	–	–	65
Operating panel	1 pc(s).	2746.010	2746.010	–	–	–	–	65
180° hinge	3 pc(s).	2449.010	2449.010	2449.010	2449.010	2449.010	2449.010	69
Door stay	5 pc(s).	2519.010	2519.010	2519.010	2519.010	2519.010	2519.010	71
Sheet steel wiring plan pockets, width-variable	1 pc(s).	2515.300	2515.300	2515.300	2515.300	2515.300	2515.300	71
Plastic wiring plan pockets		see page	see page	see page	see page	see page	see page	71
Wiring plan pockets with transparent pouch		see page	see page	see page	see page	see page	see page	71
Base/plinth corner pieces with base/plinth trim panel, front and rear, 100 mm	2 pc(s).	–	–	–	–	–	2820.061	62
Base/plinth trim panels, side, 100 mm	2 pc(s).	–	–	–	–	–	2820.410	63
Base/plinth corner pieces with base/plinth trim panel, front and rear, 200 mm	2 pc(s).	–	–	–	–	–	2820.062	62
Base/plinth trim panels, side, 200 mm	2 pc(s).	–	–	–	–	–	2820.420	63
Eyebolts	2 pc(s).	–	–	–	–	–	2509.010	72
Rain canopy	1 pc(s).	–	2476.010	2473.010	2476.010	–	–	72
Dust guard trim	1 pc(s).	2426.500	2426.500	2426.500	2426.500	2426.500	2426.500	72
Earth straps		see page	see page	see page	see page	see page	see page	83
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass		see page	see page	see page	see page	see page	see page	91
Cable gland, polyamide		see page	see page	see page	see page	see page	see page	91

Compact enclosures AX

Basic enclosure AX, sheet steel

Width (B) mm	Packs of	600	600	600	600	760	760	Page
Height (H) mm		1000	1000	1200	1200	760	760	
Depth (T) mm		250	400	300	400	210	300	
Mounting plate width (F) mm		545	545	545	545	705	705	
Mounting plate height (G) mm		975	975	1175	1175	735	735	
Material thickness – enclosure mm		1.5	1.5	1.5	1.5	1.5	1.5	
Material thickness – door mm		2.0	2.0	2.0	2.0	2.0	2.0	
Material thickness – mounting plate mm		2.5	2.5	2.5	2.5	2.5	2.5	
Model No.	1 pc(s).	1090.000	1091.000	1260.000	1261.000	1077.000	1073.000	
Weight, approx. kg		50.5	52.0	55.0	56.0	40.0	44.5	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Door hinged on the right, may be swapped to the left		■	■	■	■	■	■	
Gland plate, size		4	7	7	7	2	5	
Gland plates, qty		1	1	1	1	2	2	
Cam lock		2	2	–	–	2	2	
3-point lock system		–	–	■	■	–	–	
Accessories								
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 15 mm	4 pc(s).	2508.020	2508.020	2508.020	2508.020	2508.020	2508.020	74
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 40 mm	4 pc(s).	2503.020	2503.020	2503.020	2503.020	2503.020	2503.020	74
Wall angle	4 pc(s).	2505.510	2505.510	2505.510	2505.510	2505.510	2505.510	75
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	76
Plastic cable gland plate for cable entry, modular	1 pc(s).	2564.200	2567.200	2567.200	2567.200	2562.200	2565.200	87
Plastic gland plate with membranes	1 pc(s).	2564.300	2567.300	2567.300	2567.300	2562.300	2565.300	88
Metal gland plate with knockouts	1 pc(s).	2574.100	2577.100	2577.100	2577.100	2572.100	2575.100	89
Cable entry, modular		see page	see page	see page	see page	see page	see page	85
Rail for interior installation	4 pc(s).	2393.250	2393.400	2393.300	2393.400	2393.210	2393.300	77
Support strips	20 pc(s).	4696.000	4696.000	–	–	4599.200	4599.200	70
Punched section with mounting flange 14 x 39 mm, installation in the height	4 pc(s).	8619.750	8619.750	8619.770	8619.770	8619.790	8619.790	78
Punched section with mounting flange 14 x 39 mm, installation in the door	4 pc(s).	–	8619.720	8619.720	8619.720	–	–	78
LED system light	1 pc(s).	2500.110	2500.110	2500.110	2500.110	2500.110	2500.110	92
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	–	–	2537.100	2537.100	67
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	2537.200	–	–	2537.200	2537.200	67
Mini-comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	2537.300	2537.300	–	–	2537.300	2537.300	67
Comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	–	–	2435.100	2435.100	–	–	66
Comfort handle AX with security lock insert, lock E1	1 pc(s).	–	–	2435.200	2435.200	–	–	66
Comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	–	–	2435.400	2435.400	–	–	66
Lock inserts		see page	see page	see page	see page	see page	see page	68
Viewing window, depth 36 mm		–	–	–	–	–	–	
Viewing window, depth 62 mm		–	–	–	–	–	–	
Operating panel		–	–	–	–	–	–	
180° hinge	3 pc(s).	2449.010	2449.010	2449.010	2449.010	2449.010	2449.010	69
Door stay	5 pc(s).	2519.010	2519.010	2519.010	2519.010	2519.010	2519.010	71
Sheet steel wiring plan pockets, width-variable	1 pc(s).	2515.300	2515.300	2515.300	2515.300	2515.400	2515.400	71
Plastic wiring plan pockets		see page	see page	see page	see page	see page	see page	71
Wiring plan pockets with transparent pouch		see page	see page	see page	see page	see page	see page	71
Base/plinth corner pieces with base/plinth trim panel, front and rear, 100 mm	2 pc(s).	–	2820.061	2820.061	2820.061	–	–	62
Base/plinth trim panels, side, 100 mm	2 pc(s).	–	2820.410	2820.310	2820.410	–	–	63
Base/plinth corner pieces with base/plinth trim panel, front and rear, 200 mm	2 pc(s).	–	2820.062	2820.062	2820.062	–	–	62
Base/plinth trim panels, side, 200 mm	2 pc(s).	–	2820.420	2820.320	2820.420	–	–	63
Eyebolts	2 pc(s).	–	2509.010	2509.010	2509.010	–	–	72
Rain canopy	1 pc(s).	–	–	–	–	–	2474.010	72
Dust guard trim	1 pc(s).	2426.500	2426.500	2426.500	2426.500	2426.500	2426.500	72
Earth straps		see page	see page	see page	see page	see page	see page	83
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass		see page	see page	see page	see page	see page	see page	91
Cable gland, polyamide		see page	see page	see page	see page	see page	see page	91

Compact enclosures AX

Basic enclosure AX, sheet steel

Width (B) mm	Packs of	800	800	800	800	800	1000	Page
Height (H) mm		600	1000	1000	1200	1200	760	
Depth (T) mm		300	300	400	300	400	210	
Mounting plate width (F) mm		750	745	745	745	745	945	
Mounting plate height (G) mm		575	975	975	1175	1175	735	
Material thickness – enclosure mm		1.5	1.5	1.5	1.5	1.5	1.5	
Material thickness – door mm		2.0	2.0	2.0	2.0	2.0	2.0	
Material thickness – mounting plate mm		2.5	2.5	2.5	2.5	2.5	2.5	
Model No.	1 pc(s).	1055.000	1180.000	1181.000	1280.000	1281.000	1100.000	
Weight, approx. kg		33.9	57.0	61.0	70.0	71.0	52.0	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 55	
Protection category NEMA		NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 4	NEMA 12	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	2	
Door hinged on the right, may be swapped to the left		■	■	■	■	■	–	
Gland plate, size		5	5	5	5	5	2	
Gland plates, qty		2	2	2	2	2	2	
Cam lock		2	2	2	–	–	2	
3-point lock system		–	–	–	■	■	–	
Accessories								
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 15 mm	4 pc(s).	2508.020	2508.020	2508.020	2508.020	2508.020	2508.020	74
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 40 mm	4 pc(s).	2503.020	2503.020	2503.020	2503.020	2503.020	2503.020	74
Wall angle	4 pc(s).	2505.510	2505.510	2505.510	2505.510	2505.510	2505.510	75
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	76
Plastic cable gland plate for cable entry, modular	1 pc(s).	2565.200	2565.200	2565.200	2565.200	2565.200	2562.200	87
Plastic gland plate with membranes	1 pc(s).	2565.300	2565.300	2565.300	2565.300	2565.300	2562.300	88
Metal gland plate with knockouts	1 pc(s).	2575.100	2575.100	2575.100	2575.100	2575.100	2572.100	89
Cable entry, modular		see page	see page	see page	see page	see page	see page	85
Rail for interior installation	4 pc(s).	2393.300	2393.300	2393.400	2393.300	2393.400	2393.210	77
Support strips	20 pc(s).	4697.000	4697.000	4697.000	–	–	4695.000	70
Punched section with mounting flange 14 x 39 mm, installation in the height	4 pc(s).	8619.720	8619.750	8619.750	8619.770	8619.770	8619.790	78
Punched section with mounting flange 14 x 39 mm, installation in the door	4 pc(s).	–	–	8619.730	8619.730	8619.730	8619.710	78
LED system light	1 pc(s).	2500.110	2500.110	2500.110	2500.110	2500.110	2500.110	92
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2537.100	2537.100	2537.100	2537.100	67
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	2537.200	2537.200	2537.200	2537.200	2537.200	67
Mini-comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	2537.300	2537.300	2537.300	2537.300	2537.300	2537.300	67
Comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	–	–	–	2435.100	2435.100	–	66
Comfort handle AX with security lock insert, lock E1	1 pc(s).	–	–	–	2435.200	2435.200	–	66
Comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	–	–	–	2435.400	2435.400	–	66
Lock inserts		see page	see page	see page	see page	see page	see page	68
Viewing window, depth 36 mm		–	–	–	–	–	–	
Viewing window, depth 62 mm		–	–	–	–	–	–	
Operating panel		–	–	–	–	–	–	
180° hinge	3 pc(s).	2449.010	2449.010	2449.010	2449.010	2449.010	2449.010	69
Door stay	5 pc(s).	2519.010	2519.010	2519.010	2519.010	2519.010	2519.010	71
Sheet steel wiring plan pockets, width-variable	1 pc(s).	2515.400	2515.400	2515.400	2515.400	2515.400	2515.200	71
Plastic wiring plan pockets		see page	see page	see page	see page	see page	see page	71
Wiring plan pockets with transparent pouch		see page	see page	see page	see page	see page	see page	71
Base/plinth corner pieces with base/plinth trim panel, front and rear, 100 mm	2 pc(s).	2820.081	2820.081	2820.081	2820.081	2820.081	–	62
Base/plinth trim panels, side, 100 mm	2 pc(s).	2820.310	2820.310	2820.410	2820.310	2820.410	–	63
Base/plinth corner pieces with base/plinth trim panel, front and rear, 200 mm	2 pc(s).	2820.082	2820.082	2820.082	2820.082	2820.082	–	62
Base/plinth trim panels, side, 200 mm	2 pc(s).	2820.320	2820.320	2820.420	2820.320	2820.420	–	63
Eyebolts	2 pc(s).	–	2509.010	2509.010	2509.010	2509.010	–	72
Rain canopy	1 pc(s).	2475.010	2475.010	–	2475.010	–	–	72
Dust guard trim	1 pc(s).	2426.500	2426.500	2426.500	2426.500	2426.500	2426.500	72
Earth straps		see page	see page	see page	see page	see page	see page	83
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass		see page	see page	see page	see page	see page	see page	91
Cable gland, polyamide		see page	see page	see page	see page	see page	see page	91

Compact enclosures AX

Basic enclosure AX, sheet steel

Width (B) mm	Packs of	1000	1000	1000	1000	1000	1000	1200	Page
Height (H) mm		760	1000	1200	1200	1400	1400	1200	
Depth (T) mm		300	300	300	400	300	400	400	
Mounting plate width (F) mm		945	945	945	945	945	945	1145	
Mounting plate height (G) mm		735	975	1175	1175	1375	1375	1175	
Material thickness – enclosure mm		1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Material thickness – door mm		2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Material thickness – mounting plate mm		2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Model No.	1 pc(s).	1130.000	1110.000	1213.000	1214.000	1114.000	1115.000	1116.000	
Weight, approx. kg		56.0	71.0	85.0	86.0	97.0	100.0	102.0	
Protection category IP to IEC 60 529		IP 55	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55	
Protection category NEMA		NEMA 12	NEMA 12	NEMA 12	NEMA 12	NEMA 12	NEMA 12	NEMA 12	
Product-specific scope of supply									
Door(s)		2	2	2	2	2	2	2	
Door hinged on the right, may be swapped to the left		–	–	–	–	–	–	–	
Gland plate, size		6	6	6	6	6	6	7	
Gland plates, qty		2	2	2	2	2	2	2	
Cam lock		2	2	–	–	–	–	–	
3-point lock system		–	–	■	■	■	■	■	
Accessories									
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 15 mm	4 pc(s).	2508.020	2508.020	2508.020	2508.020	2508.020	2508.020	2508.020	74
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 40 mm	4 pc(s).	2503.020	2503.020	2503.020	2503.020	2503.020	2503.020	2503.020	74
Wall angle	4 pc(s).	2505.510	2505.510	2505.510	2505.510	2505.510	2505.510	2505.510	75
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	76
Plastic cable gland plate for cable entry, modular	1 pc(s).	2566.200	2566.200	2566.200	2566.200	2566.200	2566.200	2567.200	87
Plastic gland plate with membranes	1 pc(s).	2566.300	2566.300	2566.300	2566.300	2566.300	2566.300	2567.300	88
Metal gland plate with knockouts	1 pc(s).	2576.100	2576.100	2576.100	2576.100	2576.100	2576.100	2577.100	89
Cable entry, modular		see page	see page	see page	see page	see page	see page	see page	85
Rail for interior installation	4 pc(s).	2393.300	2393.300	2393.300	2393.400	2393.300	2393.400	2393.400	77
Support strips	20 pc(s).	4695.000	4695.000	–	–	–	–	–	70
Punched section with mounting flange 14 x 39 mm, installation in the height	4 pc(s).	8619.790	8619.750	8619.770	8619.770	8619.780	8619.780	8619.770	78
Punched section with mounting flange 14 x 39 mm, installation in the door	4 pc(s).	8619.710	8619.710	8619.710	8619.710	8619.710	8619.710	8619.720	78
LED system light	1 pc(s).	2500.110	2500.110	2500.110	2500.110	2500.110	2500.110	2500.110	92
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	–	–	–	–	–	67
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	2537.200	–	–	–	–	–	67
Mini-comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	2537.300	2537.300	–	–	–	–	–	67
Comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	–	–	2435.100	2435.100	2435.100	2435.100	2435.100	66
Comfort handle AX with security lock insert, lock E1	1 pc(s).	–	–	2435.200	2435.200	2435.200	2435.200	2435.200	66
Comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	–	–	2435.400	2435.400	2435.400	2435.400	2435.400	66
Lock inserts		see page	see page	see page	see page	see page	see page	see page	68
Viewing window, depth 36 mm		–	–	–	–	–	–	–	
Viewing window, depth 62 mm		–	–	–	–	–	–	–	
Operating panel		–	–	–	–	–	–	–	
180° hinge	3 pc(s).	2449.010	2449.010	2449.010	2449.010	2449.010	2449.010	2449.010	69
Door stay	5 pc(s).	2519.010	2519.010	2519.010	2519.010	2519.010	2519.010	2519.010	71
Sheet steel wiring plan pockets, width-variable	1 pc(s).	2515.200	2515.200	2515.200	2515.200	2515.200	2515.200	2515.300	71
Plastic wiring plan pockets		see page	see page	see page	see page	see page	see page	see page	71
Wiring plan pockets with transparent pouch		see page	see page	see page	see page	see page	see page	see page	71
Base/plinth corner pieces with base/plinth trim panel, front and rear, 100 mm	2 pc(s).	2820.101	2820.101	2820.101	2820.101	2820.101	2820.101	2820.121	62
Base/plinth trim panels, side, 100 mm	2 pc(s).	2820.310	2820.310	2820.310	2820.410	2820.310	2820.410	2820.410	63
Base/plinth corner pieces with base/plinth trim panel, front and rear, 200 mm	2 pc(s).	2820.102	2820.102	2820.102	2820.102	2820.102	2820.102	2820.122	62
Base/plinth trim panels, side, 200 mm	2 pc(s).	2820.320	2820.320	2820.320	2820.420	2820.320	2820.420	2820.420	63
Eyebolts	2 pc(s).	–	2509.010	2509.010	2509.010	2509.010	2509.010	2509.010	72
Rain canopy	1 pc(s).	2363.010	2363.010	2363.010	–	2363.010	–	–	72
Dust guard trim	1 pc(s).	2426.500	2426.500	2426.500	2426.500	2426.500	2426.500	2426.500	72
Earth straps		see page	see page	see page	see page	see page	see page	see page	83
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass		see page	see page	see page	see page	see page	see page	see page	91
Cable gland, polyamide		see page	see page	see page	see page	see page	see page	see page	91

Compact enclosures AX

Basic enclosure AX, stainless steel



System accessories Page 62 **AX sheet steel** Page 30

Material:

- Enclosure: Stainless steel
- Door: Stainless steel, all-round foamed-in PU seal
- Mounting plate: Sheet steel
- Lock: Die-cast zinc, nickel-plated, double-bit insert stainless steel

Surface finish:

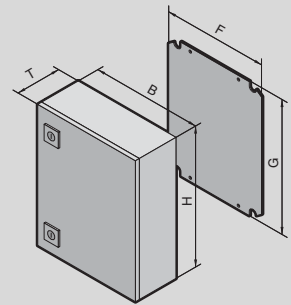
- Enclosure and door: Brushed, grain size 400
- Mounting plate: Zinc-plated

Supply includes:

- Enclosure with door(s)
 - Mounting plate
 - Lock: 3 mm double-bit
- Please note the product-specific scope of supply.

Approvals:

- UL
 - cUL
 - CSA
- Further approvals can be found on the Internet.



Compact enclosures AX

Basic enclosure AX, stainless steel

Width (B) mm		Packs of	300	300	Page
Height (H) mm			300	380	
Depth (T) mm			210	210	
Mounting plate width (F) mm			250	250	
Mounting plate height (G) mm			275	355	
Material	Stainless steel 1.4301 (AISI 304)		■	■	
	Stainless steel 1.4404 (AISI 316L)		–	–	
Model No.		1 pc(s).	1003.000	1005.000	
Weight, approx. kg			6.9	8.4	
Protection category IP to IEC 60 529			IP 66	IP 66	
Protection category NEMA			NEMA 4X	NEMA 4X	
Product-specific scope of supply					
Door(s)			1	1	
Cam lock			1	1	
3-point lock system			–	–	
Accessories					
Wall mounting bracket, for AX stainless steel, KX stainless steel, wall distance 15 mm		4 pc(s).	2433.010	2433.010	75
Wall angle, stainless steel 1.4301		4 pc(s).	2583.010	2583.010	75
Pole clamp		2 pc(s).	2584.100	2584.100	76
Rail for interior installation		4 pc(s).	2393.210	2393.210	77
Punched section with mounting flange 14 x 39 mm, installation in the height			–	–	
Punched section with mounting flange 14 x 39 mm, installation in the door			–	–	
Support strips			–	–	
LED system light			–	–	
Comfort handle AX for lock inserts or semi-cylinders			–	–	
Mini-comfort handle AX for lock inserts or semi-cylinders		1 pc(s).	2537.100	2537.100	67
Cam lock AX with double-bit insert, stainless steel 1.4404 (AISI 316L)		1 pc(s).	2304.100	2304.100	68
Lock inserts			see page	see page	67
Perforated door strip			–	–	
Door stay		5 pc(s).	2519.010	2519.010	71
Sheet steel wiring plan pockets, width-variable			–	–	
Plastic wiring plan pockets			see page	see page	71
Wiring plan pockets with transparent pouch			see page	see page	71
Rain canopy		1 pc(s).	2476.010	2476.010	72
Earth straps			see page	see page	83
Baying kit		1 pc(s).	1199.100	1199.100	64
Cable gland, brass M12 x 1.5		15 pc(s).	2411.801	2411.801	91
Cable gland, brass M16 x 1.5		15 pc(s).	2411.811	2411.811	91
Cable gland, brass M20 x 1.5		10 pc(s).	2411.821	2411.821	91
Cable gland, brass M25 x 1.5		10 pc(s).	2411.831	2411.831	91
Cable gland, brass M32 x 1.5		5 pc(s).	2411.841	2411.841	91
Cable gland, brass M40 x 1.5		4 pc(s).	2411.851	2411.851	91
Cable gland, brass M50 x 1.5		2 pc(s).	2411.861	2411.861	91
Cable gland, brass M63 x 1.5		1 pc(s).	2411.871	2411.871	91
Cable gland, polyamide M12 x 1.5		50 pc(s).	2411.601	2411.601	91
Cable gland, polyamide M16 x 1.5		50 pc(s).	2411.611	2411.611	91
Cable gland, polyamide M20 x 1.5		50 pc(s).	2411.621	2411.621	91
Cable gland, polyamide M25 x 1.5		25 pc(s).	2411.631	2411.631	91
Cable gland, polyamide M32 x 1.5		15 pc(s).	2411.641	2411.641	91
Cable gland, polyamide M40 x 1.5		5 pc(s).	2411.651	2411.651	91
Cable gland, polyamide M50 x 1.5		5 pc(s).	2411.661	2411.661	91
Cable gland, polyamide M63 x 1.5		3 pc(s).	2411.671	2411.671	91

Compact enclosures AX

Basic enclosure AX, stainless steel

Width (B) mm	Packs of	300	380	380	380	380	400	Page
Height (H) mm		380	300	380	380	600	500	
Depth (T) mm		210	210	210	210	210	210	
Mounting plate width (F) mm		250	330	330	330	330	350	
Mounting plate height (G) mm		355	275	355	355	575	475	
Material	Stainless steel 1.4301 (AISI 304)	–	■	■	–	■	■	
	Stainless steel 1.4404 (AISI 316L)	■	–	–	■	–	–	
Model No.	1 pc(s).	1302.000	1011.000	1006.000	1303.000	1008.000	1015.000	
Weight, approx. kg		8.4	8.4	9.8	9.8	15.1	12.9	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Cam lock		1	1	1	1	2	2	
3-point lock system		–	–	–	–	–	–	
Accessories								
Wall mounting bracket, for AX stainless steel, KX stainless steel, wall distance 15 mm	4 pc(s).	2433.510	2433.010	2433.010	2433.510	2433.010	2433.010	75
Wall angle, stainless steel 1.4301	4 pc(s).	2583.010	2583.010	2583.010	2583.010	2583.010	2583.010	75
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	76
Rail for interior installation	4 pc(s).	2393.210	2393.210	2393.210	2393.210	2393.210	2393.210	77
Punched section with mounting flange 14 x 39 mm, installation in the height	4 pc(s).	–	–	–	–	8619.720	8619.710	78
Punched section with mounting flange 14 x 39 mm, installation in the door		–	–	–	–	–	–	
Support strips		–	–	–	–	–	–	
LED system light		–	–	–	–	–	2500.100	92
Comfort handle AX for lock inserts or semi-cylinders		–	–	–	–	–	–	
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2537.100	2537.100	2537.100	2537.100	67
Cam lock AX with double-bit insert, stainless steel 1.4404 (AISI 316L)	1 pc(s).	2304.100	2304.100	2304.100	2304.100	2304.100	2304.100	68
Lock inserts		see page	see page	see page	see page	see page	see page	67
Perforated door strip		–	–	–	–	–	–	
Door stay	5 pc(s).	2519.010	2519.010	2519.010	2519.010	2519.010	2519.010	71
Sheet steel wiring plan pockets, width-variable	1 pc(s).	–	–	–	–	–	2515.200	71
Plastic wiring plan pockets		see page	see page	see page	see page	see page	see page	71
Wiring plan pockets with transparent pouch		see page	see page	see page	see page	see page	see page	71
Rain canopy	1 pc(s).	2476.010	2472.010	2472.010	2472.010	2476.010	–	72
Earth straps		see page	see page	see page	see page	see page	see page	83
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass M12 x 1.5	15 pc(s).	2411.801	2411.801	2411.801	2411.801	2411.801	2411.801	91
Cable gland, brass M16 x 1.5	15 pc(s).	2411.811	2411.811	2411.811	2411.811	2411.811	2411.811	91
Cable gland, brass M20 x 1.5	10 pc(s).	2411.821	2411.821	2411.821	2411.821	2411.821	2411.821	91
Cable gland, brass M25 x 1.5	10 pc(s).	2411.831	2411.831	2411.831	2411.831	2411.831	2411.831	91
Cable gland, brass M32 x 1.5	5 pc(s).	2411.841	2411.841	2411.841	2411.841	2411.841	2411.841	91
Cable gland, brass M40 x 1.5	4 pc(s).	2411.851	2411.851	2411.851	2411.851	2411.851	2411.851	91
Cable gland, brass M50 x 1.5	2 pc(s).	2411.861	2411.861	2411.861	2411.861	2411.861	2411.861	91
Cable gland, brass M63 x 1.5	1 pc(s).	2411.871	2411.871	2411.871	2411.871	2411.871	2411.871	91
Cable gland, polyamide M12 x 1.5	50 pc(s).	2411.601	2411.601	2411.601	2411.601	2411.601	2411.601	91
Cable gland, polyamide M16 x 1.5	50 pc(s).	2411.611	2411.611	2411.611	2411.611	2411.611	2411.611	91
Cable gland, polyamide M20 x 1.5	50 pc(s).	2411.621	2411.621	2411.621	2411.621	2411.621	2411.621	91
Cable gland, polyamide M25 x 1.5	25 pc(s).	2411.631	2411.631	2411.631	2411.631	2411.631	2411.631	91
Cable gland, polyamide M32 x 1.5	15 pc(s).	2411.641	2411.641	2411.641	2411.641	2411.641	2411.641	91
Cable gland, polyamide M40 x 1.5	5 pc(s).	2411.651	2411.651	2411.651	2411.651	2411.651	2411.651	91
Cable gland, polyamide M50 x 1.5	5 pc(s).	2411.661	2411.661	2411.661	2411.661	2411.661	2411.661	91
Cable gland, polyamide M63 x 1.5	3 pc(s).	2411.671	2411.671	2411.671	2411.671	2411.671	2411.671	91

Compact enclosures AX

Basic enclosure AX, stainless steel

Width (B) mm	Packs of	500	500	600	600	600	600	Page
Height (H) mm		500	500	380	600	600	760	
Depth (T) mm		210	300	210	210	210	210	
Mounting plate width (F) mm		450	450	550	550	550	550	
Mounting plate height (G) mm		475	475	355	575	575	735	
Material	Stainless steel 1.4301 (AISI 304)	■	■	■	■	–	■	
	Stainless steel 1.4404 (AISI 316L)	–	–	–	–	■	–	
Model No.	1 pc(s).	1007.000	1013.000	1009.000	1010.000	1304.000	1012.000	
Weight, approx. kg		15.7	18.4	14.6	23.5	23.5	30.2	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 66	IP 66	IP 66	
Protection category NEMA		NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	
Product-specific scope of supply								
Door(s)		1	1	1	1	1	1	
Cam lock		2	2	1	2	2	2	
3-point lock system		–	–	–	–	–	–	
Accessories								
Wall mounting bracket, for AX stainless steel, KX stainless steel, wall distance 15 mm	4 pc(s).	2433.010	2433.010	2433.010	2433.010	2433.510	2433.010	75
Wall angle, stainless steel 1.4301	4 pc(s).	2583.010	2583.010	2583.010	2583.010	2583.010	2583.010	75
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	76
Rail for interior installation	4 pc(s).	2393.210	2393.210	2393.210	2393.210	2393.210	2393.210	77
Punched section with mounting flange 14 x 39 mm, installation in the height	4 pc(s).	8619.710	8619.710	–	8619.720	8619.720	–	78
Punched section with mounting flange 14 x 39 mm, installation in the door		–	–	–	–	–	–	
Support strips	20 pc(s).	–	–	–	–	–	4696.000	70
LED system light	1 pc(s).	2500.100	2500.100	2500.100	2500.100	2500.100	2500.100	92
Comfort handle AX for lock inserts or semi-cylinders		–	–	–	–	–	–	
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2537.100	2537.100	2537.100	2537.100	67
Cam lock AX with double-bit insert, stainless steel 1.4404 (AISI 316L)	1 pc(s).	2304.100	2304.100	2304.100	2304.100	2304.100	2304.100	68
Lock inserts		see page	see page	see page	see page	see page	see page	67
Perforated door strip	2 pc(s).	–	–	–	–	–	2311.076	70
Door stay	5 pc(s).	2519.010	2519.010	2519.010	2519.010	2519.010	2519.010	71
Sheet steel wiring plan pockets, width-variable	1 pc(s).	2515.200	2515.200	2515.300	2515.300	2515.300	2515.300	71
Plastic wiring plan pockets		see page	see page	see page	see page	see page	see page	71
Wiring plan pockets with transparent pouch		see page	see page	see page	see page	see page	see page	71
Rain canopy	1 pc(s).	2362.010	–	2473.010	2473.010	2473.010	2473.010	72
Earth straps		see page	see page	see page	see page	see page	see page	83
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass M12 x 1.5	15 pc(s).	2411.801	2411.801	2411.801	2411.801	2411.801	2411.801	91
Cable gland, brass M16 x 1.5	15 pc(s).	2411.811	2411.811	2411.811	2411.811	2411.811	2411.811	91
Cable gland, brass M20 x 1.5	10 pc(s).	2411.821	2411.821	2411.821	2411.821	2411.821	2411.821	91
Cable gland, brass M25 x 1.5	10 pc(s).	2411.831	2411.831	2411.831	2411.831	2411.831	2411.831	91
Cable gland, brass M32 x 1.5	5 pc(s).	2411.841	2411.841	2411.841	2411.841	2411.841	2411.841	91
Cable gland, brass M40 x 1.5	4 pc(s).	2411.851	2411.851	2411.851	2411.851	2411.851	2411.851	91
Cable gland, brass M50 x 1.5	2 pc(s).	2411.861	2411.861	2411.861	2411.861	2411.861	2411.861	91
Cable gland, brass M63 x 1.5	1 pc(s).	2411.871	2411.871	2411.871	2411.871	2411.871	2411.871	91
Cable gland, polyamide M12 x 1.5	50 pc(s).	2411.601	2411.601	2411.601	2411.601	2411.601	2411.601	91
Cable gland, polyamide M16 x 1.5	50 pc(s).	2411.611	2411.611	2411.611	2411.611	2411.611	2411.611	91
Cable gland, polyamide M20 x 1.5	50 pc(s).	2411.621	2411.621	2411.621	2411.621	2411.621	2411.621	91
Cable gland, polyamide M25 x 1.5	25 pc(s).	2411.631	2411.631	2411.631	2411.631	2411.631	2411.631	91
Cable gland, polyamide M32 x 1.5	15 pc(s).	2411.641	2411.641	2411.641	2411.641	2411.641	2411.641	91
Cable gland, polyamide M40 x 1.5	5 pc(s).	2411.651	2411.651	2411.651	2411.651	2411.651	2411.651	91
Cable gland, polyamide M50 x 1.5	5 pc(s).	2411.661	2411.661	2411.661	2411.661	2411.661	2411.661	91
Cable gland, polyamide M63 x 1.5	3 pc(s).	2411.671	2411.671	2411.671	2411.671	2411.671	2411.671	91

Compact enclosures AX

Basic enclosure AX, stainless steel

Width (B) mm	Packs of	760	800	800	1000	1000	1000	Page
Height (H) mm		760	1000	1200	1000	1200	1200	
Depth (T) mm		300	300	300	300	300	300	
Mounting plate width (F) mm		705	745	745	945	945	945	
Mounting plate height (G) mm		735	975	1175	975	1175	1175	
Material	Stainless steel 1.4301 (AISI 304)	■	■	■	■	■	–	
	Stainless steel 1.4404 (AISI 316L)	–	–	–	–	–	■	
Model No.	1 pc(s).	1014.000	1016.000	1017.000	1018.000	1019.000	1305.000	
Weight, approx. kg		42.5	52.9	61.5	71.0	76.0	76.0	
Protection category IP to IEC 60 529		IP 66	IP 66	IP 66	IP 55	IP 55	IP 55	
Protection category NEMA		NEMA 4X	NEMA 4X	NEMA 4X	NEMA 12	NEMA 12	NEMA 12	
Product-specific scope of supply								
Door(s)		1	1	1	2	2	2	
Cam lock		2	2	–	2	–	–	
3-point lock system		–	–	■	–	■	■	
Accessories								
Wall mounting bracket, for AX stainless steel, KX stainless steel, wall distance 15 mm	4 pc(s).	2433.010	2433.010	2433.010	2433.010	2433.010	2433.510	75
Wall angle, stainless steel 1.4301	4 pc(s).	2583.010	2583.010	2583.010	2583.010	2583.010	2583.010	75
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	76
Rail for interior installation	4 pc(s).	2393.300	2393.300	2393.300	2393.300	2393.300	2393.300	77
Punched section with mounting flange 14 x 39 mm, installation in the height	4 pc(s).	–	8619.750	8619.770	8619.750	8619.770	8619.770	78
Punched section with mounting flange 14 x 39 mm, installation in the door	4 pc(s).	–	–	8619.730	–	8619.710	8619.710	78
Support strips	20 pc(s).	4599.200	4697.000	4697.000	4695.000	4695.000	4695.000	70
LED system light	1 pc(s).	2500.110	2500.110	2500.110	2500.110	2500.110	2500.110	92
Comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	–	–	2435.100	–	2435.100	2435.100	66
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	–	2537.100	–	–	67
Cam lock AX with double-bit insert, stainless steel 1.4404 (AISI 316L)	1 pc(s).	2304.100	2304.100	2304.100	2304.100	–	2304.100	68
Lock inserts		see page	see page	see page	see page	see page	see page	67
Perforated door strip	2 pc(s).	2311.076	2311.100	2311.120	2311.100	2311.120	2311.120	70
Door stay	5 pc(s).	2519.010	2519.010	2519.010	2519.010	2519.010	2519.010	71
Sheet steel wiring plan pockets, width-variable	1 pc(s).	2515.400	2515.400	2515.400	2515.200	2515.200	2515.200	71
Plastic wiring plan pockets		see page	see page	see page	see page	see page	see page	71
Wiring plan pockets with transparent pouch		see page	see page	see page	see page	see page	see page	71
Rain canopy	1 pc(s).	2474.010	2475.010	2475.010	2363.010	2363.010	2363.010	72
Earth straps		see page	see page	see page	see page	see page	see page	83
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass M12 x 1.5	15 pc(s).	2411.801	2411.801	2411.801	2411.801	2411.801	2411.801	91
Cable gland, brass M16 x 1.5	15 pc(s).	2411.811	2411.811	2411.811	2411.811	2411.811	2411.811	91
Cable gland, brass M20 x 1.5	10 pc(s).	2411.821	2411.821	2411.821	2411.821	2411.821	2411.821	91
Cable gland, brass M25 x 1.5	10 pc(s).	2411.831	2411.831	2411.831	2411.831	2411.831	2411.831	91
Cable gland, brass M32 x 1.5	5 pc(s).	2411.841	2411.841	2411.841	2411.841	2411.841	2411.841	91
Cable gland, brass M40 x 1.5	4 pc(s).	2411.851	2411.851	2411.851	2411.851	2411.851	2411.851	91
Cable gland, brass M50 x 1.5	2 pc(s).	2411.861	2411.861	2411.861	2411.861	2411.861	2411.861	91
Cable gland, brass M63 x 1.5	1 pc(s).	2411.871	2411.871	2411.871	2411.871	2411.871	2411.871	91
Cable gland, polyamide M12 x 1.5	50 pc(s).	2411.601	2411.601	2411.601	2411.601	2411.601	2411.601	91
Cable gland, polyamide M16 x 1.5	50 pc(s).	2411.611	2411.611	2411.611	2411.611	2411.611	2411.611	91
Cable gland, polyamide M20 x 1.5	50 pc(s).	2411.621	2411.621	2411.621	2411.621	2411.621	2411.621	91
Cable gland, polyamide M25 x 1.5	25 pc(s).	2411.631	2411.631	2411.631	2411.631	2411.631	2411.631	91
Cable gland, polyamide M32 x 1.5	15 pc(s).	2411.641	2411.641	2411.641	2411.641	2411.641	2411.641	91
Cable gland, polyamide M40 x 1.5	5 pc(s).	2411.651	2411.651	2411.651	2411.651	2411.651	2411.651	91
Cable gland, polyamide M50 x 1.5	5 pc(s).	2411.661	2411.661	2411.661	2411.661	2411.661	2411.661	91
Cable gland, polyamide M63 x 1.5	3 pc(s).	2411.671	2411.671	2411.671	2411.671	2411.671	2411.671	91

Compact enclosures AX

Wall-mounted enclosures AX with 482.6 mm (19") mounting angles, depth-variable



System accessories Page 62

Material:

- Sheet steel

Surface finish:

- Enclosure and door: Dipcoat-primed, powder-coated on the outside, textured paint
- Interior installation: Zinc-plated

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 66, provided suitable gland plates (accessory) are used

Supply includes:

- Enclosure, solid, with hinged door
- Door hinged on the right, may be swapped to the left
- Gland plate with brush strip for cable entry in the enclosure base, pre-assembled
- Cam lock with 3 mm double-bit insert
- 482.6 mm (19") mounting angles, front, depth-variable on a 25 mm pitch pattern, mounted on four interior installation rails
- Mounting bracket for accommodating a 482.6 mm (19") socket strip or an earth rail in conjunction with a C rail for cable clamping
- C rail pre-fitted to the rear panel

Wall-mounted enclosures AX with 482.6 mm (19") mounting angles, depth-variable

Units U	Packs of	8	13	16	16	Page
Width mm		600	600	600	600	
Height mm		380	600	760	800	
Depth mm		350	350	350	400	
Max. installation depth mm, 482.6 mm (19") mounting angle up to the rear panel, above the mounting bracket		278	278	278	316	
Cam locks		1	2	2	2	
Model No.		7641.350	7643.350	7645.350	7646.400	
Gland plate, size		7	7	7	7	
Gland plate, qty		1	1	1	1	

Accessories

Accessories		see page 87 – 89				
Gland plates IP 66		see page 87 – 89				
Wall angle	4 pc(s).	2505.510	2505.510	2505.510	2505.510	75
Viewing window, depth 36 mm	1 pc(s).	2730.010	2731.010	2732.010	-	65
Viewing window, depth 62 mm	1 pc(s).	2760.010	2761.010	2762.010	-	65
Component shelf, depth 250 mm, 2 U, static installation, RAL 9005	1 pc(s).	5501.615	5501.615	5501.615	5501.615	
Component shelf, depth 300 mm, 2 U, pull-out, RAL 9005	1 pc(s).	5501.635 ¹⁾	5501.635 ¹⁾	5501.635 ¹⁾	5501.635	
Lock inserts		see page	see page	see page	see page	68
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2537.100	2537.100	67
482.6 mm (19") fastener, 1 U	24 pc(s).	2090.000	2090.000	2090.000	2090.000	
Multi-tooth screws M5 x 16 mm (multi-tooth 25)	50 pc(s).	7094.130	7094.130	7094.130	7094.130	
Cable management panel, 1 U, RAL 9005	1 pc(s).	5502.205	5502.205	5502.205	5502.205	
Cable entry panel with brush strip, 1 U, RAL 9005	1 pc(s).	5502.255	5502.255	5502.255	5502.255	
Cable clamps for C rails	25 pc(s).	7077.000 to 7099.000				
Earth rail, horizontal	1 pc(s).	7113.000	7113.000	7113.000	7113.000	
Earth straps		see page	see page	see page	see page	83

¹⁾ For 350 mm enclosure depth, reduced clearance in front of the 482.6 mm (19") mounting level



OPERATING HOUSINGS AX – MORE **ERGONOMIC**

In conjunction with the Rittal support arm system, the integrated support arm connection always ensures the correct viewing angle and is therefore more ergonomic.





Compact enclosures AX

Operating housings AX with handle strips



System accessories Page 62

Material:

- Enclosure: Sheet steel
- Door: Sheet steel, all-round foamed-in PU seal
- Handle strips: Aluminium
- Front panel: Aluminium
- Cover caps: Plastic

Surface finish:

- Enclosure and door: Dipcoat-primed, powder-coated on the outside, textured paint
- Handle strip: Natural anodised
- Front panel: Natural anodised

Colour:

- Enclosure and door: RAL 7035
- Cover caps: similar to RAL 7024

Protection category IP to IEC 60 529:

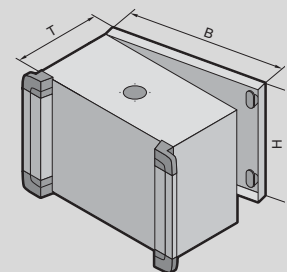
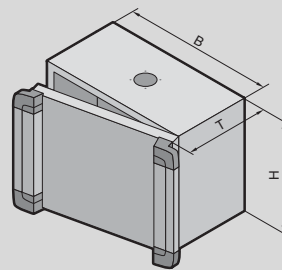
- IP 55

Supply includes:

- Enclosure with door, cut-out and reinforcement for support arm connection \varnothing 130 mm
- Front with maximum cut-out, covered with easily machinable 3 mm aluminium front panel
- Side handle strips and cover caps
- Integral interior installation bracket with system punchings
- Cam lock with 3 mm double-bit insert

Note:

- The support arm connection and door hinge may be swapped over by rotating the enclosure
- Optional: Support arm connection \varnothing 130 mm, pre-formed off-centre in the reinforcement plate, easily drilled out
- Lock systems for servicing access from the rear:
Lock insert may be exchanged for mini-comfort handle AX, 27 mm lock inserts, type A
- Lock systems for servicing access from the front:
Lock insert may be exchanged for 27 mm lock inserts, type A



Approvals:

- UL
- cUL
- CSA

Compact enclosures AX

Operating housings AX with handle strips

Width (B) mm	Packs of	300	300	380	380	380	Page
Height (H) mm		200	300	300	380	380	
Depth (T) mm		155	210	210	210	210	
Model No.	1 pc(s).	6320.050	6315.150	6315.250	6315.350	6320.350	
Weight, approx. kg		4.5	7.0	7.5	9.8	9.8	
Servicing access	from the rear	■	–	–	–	■	
	from the front	–	■	■	■	–	

Accessories

Punched section with mounting flange 14 x 39 mm, installation in the height	4 pc(s).	–	–	–	8619.700	8619.700	
Punched section with mounting flange 14 x 39 mm, installation in the width	4 pc(s).	8619.700	8619.700	–	–	–	
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	79
Mounting bracket for interior installation	4 pc(s).	6205.100	6205.100	6205.100	6205.100	6205.100	80
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	–	–	–	2537.100	67
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	–	–	–	2537.200	67
Mini-comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	2537.300	–	–	–	2537.300	67
Lock inserts		see page	see page	see page	see page	see page	68
Earth straps		see page	see page	see page	see page	see page	83

Operating housings AX with handle strips

Width (B) mm	Packs of	500	500	600	600	600	Page
Height (H) mm		500	500	380	600	600	
Depth (T) mm		210	210	210	210	210	
Model No.	1 pc(s).	6315.450	6320.450	6320.550	6320.650	6315.650	
Weight, approx. kg		16.8	16.8	15.4	18.8	22.8	
Servicing access	from the rear	–	■	■	■	–	
	from the front	■	–	–	–	■	

Accessories

Punched section with mounting flange 14 x 39 mm, installation in the height	4 pc(s).	8619.710	8619.710	8619.700	8619.720	8619.720	
Punched section with mounting flange 14 x 39 mm, installation in the width	4 pc(s).	8619.720	8619.720	8619.760	8619.760	8619.760	
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	79
Mounting bracket for interior installation	4 pc(s).	6205.100	6205.100	6205.100	6205.100	6205.100	80
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	–	2537.100	2537.100	2537.100	–	67
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	–	2537.200	2537.200	2537.200	–	67
Mini-comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	–	2537.300	2537.300	2537.300	–	67
Lock inserts		see page	see page	see page	see page	see page	68
Earth straps		see page	see page	see page	see page	see page	83



Compact enclosures AX

Operating housings AX for desktop TFT up to 24"



System accessories Page 62

For the installation of commercially available desktop TFTs with a screen diagonal of up to 24" in the formats 16:9/16:10.

Material:

- Enclosure: Sheet steel
- Door: Sheet steel, all-round foamed-in PU seal
- Handle strips: Aluminium
- Cover caps: Plastic
- Viewing window: Single-pane safety glass
- TFT holder: Sheet steel

Surface finish:

- Enclosure and door: Powder-coated on the outside, textured paint
- Handle strip: Natural anodised

Colour:

- Enclosure and door: RAL 7035
- Cover caps: similar to RAL 7024

Protection category IP to IEC 60 529:

- IP 65

Supply includes:

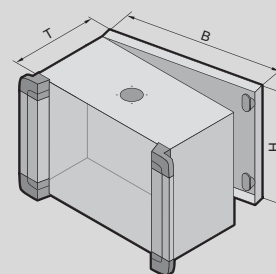
- Enclosure with door, cut-out and reinforcement for support arm connection Ø 130 mm
- Viewing window, single-pane safety glass
- Holder for desktop TFT with VESA 75/100 locator
- Side handle strips and cover caps
- Rear door with r/h hinge
- Cam lock with 3 mm double-bit insert

Note:

- The support arm connection and door hinge may be swapped over by rotating the enclosure
- Optional: Support arm connection Ø 130 mm, pre-formed off-centre in the reinforcement plate, easily drilled out
- Lock insert may be exchanged for mini-comfort handle AX, 27 mm lock inserts, type A

Approvals:

- UL
- cUL
- CSA



Operating housing AX for desktop TFT up to 24"

Width (B) mm	Packs of	650	Page
Height (H) mm		450	
Depth (T) mm		155	
Model No.	1 pc(s).	6321.050	
Weight, approx. kg		18.0	
Cam lock		2	
Accessories			
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	67
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	67
Mini-comfort handle AX for padlock and lock inserts or semi-cylinders	1 pc(s).	2537.300	67
Lock inserts		see page	68

AX. KX. SYSTEM PERFECTION.

LED system light



ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES



FRIEDHELM LOH GROUP



ACCESSORIES AX – MORE **RELIABLE**

Maintaining all relevant approvals when installing type-tested system accessories such as wall mounting brackets and gland plates improves reliability.







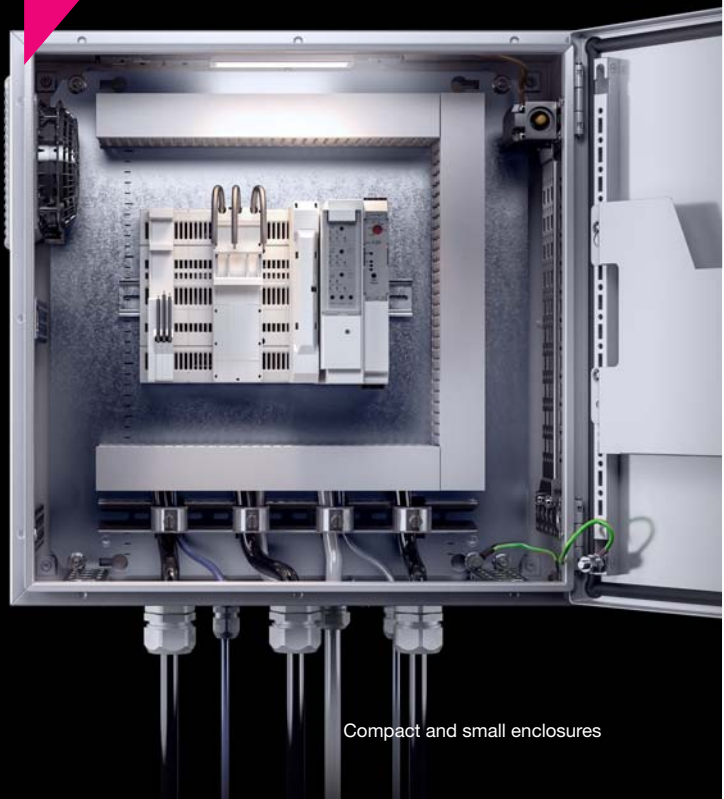
UL conformity

The series-standard UL approvals are maintained in full when inserting Rittal accessory components into existing or new enclosure openings.



Interior installation

Custom enclosures can be configured quickly and easily due to the tool-free, height-adjustable mechanically locked fixing of the interior installation rail using integrated locators and thanks to full compatibility with the comprehensive range of system accessories.



Power distribution

The AX in conjunction with the RiLine Compact is the ideal solution with design verification for smaller low-voltage switchgear systems.



Fast installation

The rail for interior installation ensures that routine tasks such as installing door-operated switches or cable routing can be completed in next to no time without any machining.



Flexibility

No machining is required for door installations because the system accessories can be attached directly to the perforated door strip with U-section and to the system punching.

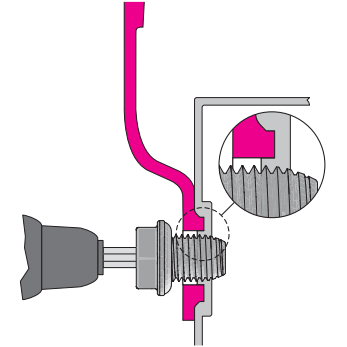


Maximum comfort

The comfort handle AX is available for all standard lock inserts, which means it can be incorporated into existing locking systems.

One-person assembly
The new wall mounting bracket is very easy to attach from the outside using a self-tapping screw. The enclosure can then simply be hung on the pre-fitted screws.





Wall mounting bracket, sheet steel

Square knockouts for attaching wall brackets are provided on the rear of sheet steel enclosures along with an innovative eyelet for direct screw-fastening from the outside using self-tapping screws.



Wall mounting bracket, stainless steel

Stainless steel enclosures have knockouts for anti-twist fixing of the wall mounting bracket and a hole punch mark. This saves time and means holes can be drilled without any measuring or marking. Stainless steel enclosures are closed at the rear for hygiene reasons.



Base/plinth system AX

The large opening in the base/plinth corner piece enables it to be screw-fastened to the enclosure directly from the front. Clip-in trim panels allow simple, fast access to the base/plinth for custom use, e.g. as a cable chamber.



Baying

The baying kit can be used to bay enclosures with their own cut-outs quickly in compliance with the designated protection category.



Rain canopy

The sloping rain canopy reliably protects the enclosure from standing moisture and other soiling from above. It can be attached to the enclosure without any machining.



Pole clamp

The universal pole clamp makes it very easy to fasten enclosures to round or square poles without any machining.



Eyebolts

Eyebolts for transportation can easily be fitted using the holes provided as standard on larger enclosures. Reinforcement plates ensure safe transportation – even when heavy equipment is installed in enclosures.





Door variants

With appropriately dimensioned enclosures, both the viewing window and the operating panel can be used as a door variant. Enclosures can thus be used as a command panel and/or provide a clear view of the components inside.



Door installation

The perforated door strip with integrated 25 mm system punching enables fully customised configuration with wiring plan pockets so that all important documents are always to hand. Punched sections with mounting flanges make it very easy to use doors as additional mounting surfaces.



Door installation

180° hinges and a door stay make it possible to work unimpeded in the enclosure. There is no chance of the door unintentionally slamming shut and no obstruction if space is tight.

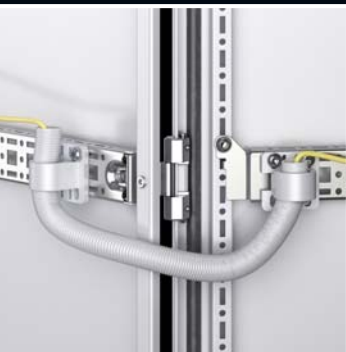




Locking system

The comfort handle is available for enclosures with locking rods and cam locks, with all standard versions and lock inserts. Up to six padlocks may be attached to the multiple lock, making it very straightforward to have individual access rights for different groups of people.





Punched sections with mounting flanges, 14 x 39 mm
 In conjunction with rails for interior installation or perforated door strips, 14 x 39 mm punched sections with mounting flanges create completely new possibilities in interior installation.



Earth straps
 Pre-assembled earth straps of the ideal length are available in all standard cross-sections for reliable earthing. This saves a great deal of time during installation.



ISV installation kit
 ISV installation kits make light work of preparing standard AX enclosures for installation using ISV installation modules, even in a stainless steel enclosure of the appropriate size.



Pressure relief stopper
 The sealing membrane in the pressure relief stopper prevents pressure differences as a result of changing climate conditions. This puts a stop to condensation and the resulting corrosion problems.

Rail for interior installation

The rail for interior installation instantly creates an additional mounting surface or the basis for full rail installation in a 25 mm pitch pattern. No machining whatsoever is required and the integrated locators in the enclosure ensure a secure hold – even under dynamic loads.

Mounting bracket

This versatile bracket is used to attach LED system lights in the roof section or on the side of the enclosure in a 25 mm pitch pattern without any machining whatsoever.

Fan-and-filter unit

Rittal fan-and-filter units are the ideal choice for preventing hot spots in the enclosure. When they are used, even UL approvals are maintained in full.



Condensate discharge

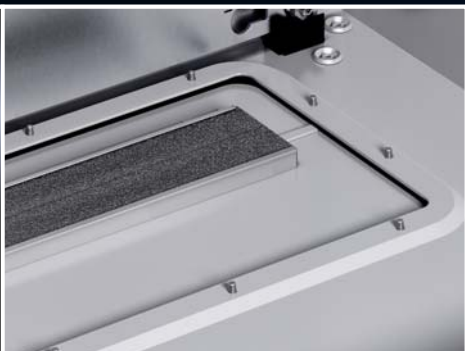
The condensate discharge reliably removes any unavoidable condensation that occurs inside the enclosure. The integrated labyrinth seal protects the enclosure against splashes. No machining is required for installation in the case of sheet steel enclosures.



Cable entry



Cable routing
The cable conduit and cable conduit holder ensure flexible and reliable cable routing between door and enclosure.



Connector gland, small
Whatever the surface, this component makes light work of introducing pre-assembled cables. Installation is possible up to a material thickness of 4 mm. Cables can be securely fastened to the integrated strain relief component using cable ties.



Cable entry, modular

This type of cable entry is completely flexible – even in the case of pre-assembled cables. The seal inserts can be adapted individually to the required cable cross-sections. The modular cable entry is available in the form of a gland plate and for installation on any desired surface.

Rail for interior installation

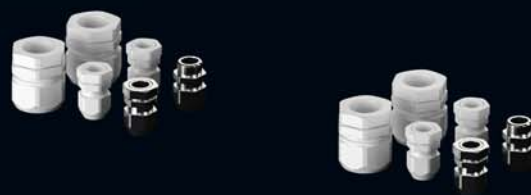
This can also be used for cable routing or for assemblies such as terminal strips.

Gland plates

Rittal offers the perfect gland plate for every purpose – from plastic gland plates with membranes for rapid cable insertion and metal gland plates with metric knockouts for easy assembly of cable glands to gland plates with cable clamp strips for tasks such as inserting pre-assembled cables.

Cable glands

Depending on the application in question, cable glands are available in brass with nickel plating, in polyamide or as an EMC version. Integrated clamping membranes ensure reliable tightening and strain relief to protect the cables.



System accessories AX

Base/plinth system AX

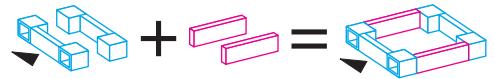


Modular base/plinth diversity

The new, innovative base/plinth system AX offers an unprecedented diversity of functions and applications.

The base/plinth system AX comprises the following components:

- Base/plinth corner pieces with base/plinth trim panels, front and rear
- Base/plinth trim panels, sides

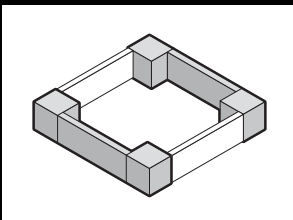


One Model No. for the **base/plinth corner pieces with base/plinth trim panels, front and rear**

One Model No. for the **base/plinth trim panels, side**

One complete **base/plinth AX**

Base/plinth	Basic form	Cable entry options			Stabilisation of bayed base/plinths	
100 mm						
200 mm						



Base/plinth corner pieces with base/plinth trim panels, front and rear

Sheet steel

Base/plinth corner pieces with large opening for optimum access to the screw-fastening point, may be concealed with a plastic corner cover.

Material:

- Base/plinth corner piece: Sheet steel
- Base/plinth trim panel front/rear: Sheet steel
- Corner cover: Plastic

Colour:

- RAL 9005

100 mm high supply includes:

- 4 base/plinth corner pieces, 100 mm high
- 4 corner covers
- 2 base/plinth trim panels, front/rear, 100 mm high
- Assembly parts

200 mm high supply includes:

- 4 base/plinth corner pieces, 200 mm high
- 4 corner covers
- 1 base/plinth trim panel, front/rear, 200 mm high
- 2 base/plinth trim panels, front/rear, 100 mm high
- Assembly parts

100 mm high

For enclosure width mm	Model No.
600	2820.061
800	2820.081
1000	2820.101
1200	2820.121

200 mm high

For enclosure width mm	Model No.
600	2820.062
800	2820.082
1000	2820.102
1200	2820.122



Also required:

- Side base/plinth trim panels, to finish off a base/plinth unit at the end, see page 62



Accessories:

- Base mounting plate, see page 63

System accessories AX

Base/plinth system AX

Base/plinth trim panels, sides

Sheet steel

To finish off a base/plinth unit at the sides and for additional stabilisation or for the interior configuration of bayed base/plinths. One 200 mm high or two 100 mm high trim panels may optionally be fitted on 200 mm high base/plinths.

Material:

- Sheet steel

Colour:

- RAL 9005

Supply includes:

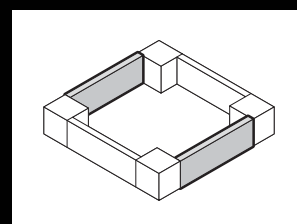
- 2 base/plinth trim panels
- Assembly parts

100 mm high

For enclosure depth mm	Model No.
300	2820.310
400	2820.410

200 mm high

For enclosure depth mm	Model No.
300	2820.320
400	2820.420



Base mounting plate

For attaching the base/plinth to the floor. For assembly screws up to 12 mm Ø.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Packs of	Model No.
10 pc(s).	2817.000



System accessories AX

Base/Baying



Pressure relief stopper

Especially when enclosures are exposed to changing climatic conditions, pressure differences may cause condensation to form in sealed enclosures. The integral sealing membrane in the pressure relief stopper largely prevents such pressure differences and hence eliminates condensation; additionally, it also prevents the ingress of moisture from the outside. Installed in vertical surfaces to protect against dirt.

Technical specifications:

- Air permeability up to 120 litres/hour with a pressure difference of 70 mbar
- Connection thread M12 x 1.5
- For fitting in wall thicknesses up to 4 mm

Packs of	Model No.
5 pc(s).	2459.500

Material:

- Polyamide

Colour:

- Similar to RAL 9005

Protection category IP to IEC 60 529:

- IP 68

Protection category IP to DIN 40 040-9:

- IP 69K

Supply includes:

- Lock nut



Condensate discharge

For reliable condensate discharge from the inside and protection against splashed water from the outside (labyrinth effect). A hole diameter of 16 mm is required (with AX sheet steel, the holes are already provided in the base).

Material:

- Polyamide

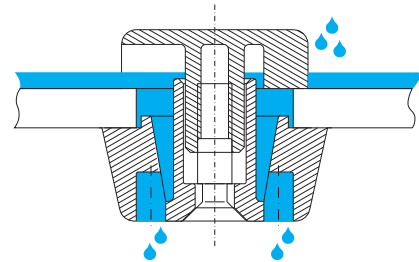
Colour:

- Similar to RAL 7035

Protection category:

- Protection from splashed water, when professionally installed at the bottom

Packs of	Model No.
6 pc(s).	2459.000



Baying kit

for AX, KX

For baying AX/KX enclosures. The additional cut-outs are to be provided by the customer.

Special screws and nuts

- For fast, simple assembly without thread-tapping
- Compression of the seal is limited to a predefined level, to ensure a long-lasting, permanent seal between enclosures

Seal, self-adhesive

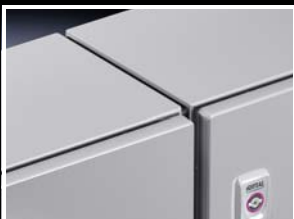
- Comprised of bayable sealing elements and corner pieces, for individual adaptation to various enclosure sizes

One pack is sufficient for a baying point up to H x D = 800 x 350 mm.

Packs of	Model No.
1 pc(s).	1199.100

Supply includes:

- Special screws and nuts
- Sealing elements, self-adhesive



System accessories AX

Viewing window/operating panel

Viewing window

For mounting on

- AX enclosures instead of the door
- Surfaces

Max. installation depth: (depth -4 mm)

Visible area: (width -60 mm) x (height -60 mm)

Material:

- Frame: Aluminium, natural anodised
- Glazed panel: Acrylic

Protection category IP to IEC 60 529:

- IP 54

Supply includes:

- Plastic handle with lock insert no. 3524 E

Depth 36 mm

For use as door variant with	Width mm	Height mm	Model No.
1050.000, 1350.000, 1007.000	497	497	2733.010
1039.000, 1339.000, 1009.000	597	377	2730.010
1010.000, 1054.000, 1060.000, 1360.000	597	597	2731.010
1012.000, 1076.000, 1376.000	597	757	2732.010

Depth 62 mm

For use as door variant with	Width mm	Height mm	Model No.
1050.000, 1350.000, 1007.000	497	497	2763.010
1039.000, 1339.000, 1009.000	597	377	2760.010
1010.000, 1054.000, 1060.000, 1360.000	597	597	2761.010
1012.000, 1076.000, 1376.000	597	757	2762.010



Operating panel

For mounting on

- AX enclosures instead of the door
- Surfaces

Frame construction with a 3 mm aluminium plate secured from the inside.

Material:

- Aluminium, natural anodised

Protection category IP to IEC 60 529:

- IP 54

Supply includes:

- Aluminium frame
- Display panel
- Hinges
- Brackets

For use as door variant for AX	Width mm	Height mm	Depth mm	Model No.
1004.000 1011.000 1031.000	377	297	36	2741.010
1006.000 1303.000 1380.000	377	377	36	2742.010
1008.000 1038.000 1338.000	377	597	36	2743.010
1007.000 1013.000 1050.000 1350.000	497	497	36	2745.010
1009.000 1039.000 1339.000	597	377	36	2744.010
1010.000 1060.000 1304.000 1360.000	597	597	36	2746.010

Area available for population:
(width -70 mm) x (height -70 mm)

Dimensions of aluminium plate:
(width -54 mm) x (height -54 mm)



Accessories:

- Cam lock 2749.100, see page 65



Cam lock

for operating panel

May be retrofitted to the operating area or enclosure wall of operating panels.

Standard double-bit insert may be exchanged for lock inserts, type C.

Packs of	Model No.
1 pc(s).	2749.100



Accessories:

- Lock inserts, type C, see Catalogue 35, page 680



System accessories AX

Lock system



Comfort handle AX

for compact enclosures AX with locking rod

Prepared for the installation of lock inserts or for the installation of standard commercially available 40 or 45 mm semi-cylinders, as well as lock and push-button inserts. The unlocked handle folds out forwards, and the lock is opened by swivelling.

Material:

- Die-cast zinc

Surface finish:

- Powder-coated

			
	For lock inserts or semi-cylinders	With security lock insert E1 ¹⁾	For padlocks and lock inserts or semi-cylinders
	Model No.		
RAL 7035	2435.100	2435.200	2435.400
Lock inserts, type A			
7 mm square	2460.000	–	2460.000
8 mm square	2461.000	–	2461.000
7 mm triangular	2462.000	–	2462.000
8 mm triangular	2463.000	–	2463.000
Screwdriver	2464.000	–	2464.000
Daimler insert	2465.000	–	2465.000
3 mm double-bit	2466.000	–	2466.000
Fiat	2307.000	–	2307.000
6.5 mm triangular	2460.650	–	2460.650
Lock and push-button inserts			
Lock insert, lock no. 3524 E ²⁾	2467.000	–	2467.000
Push-button insert	2468.000	–	2468.000
Push-button and lock insert ²⁾	2469.000 ³⁾	–	2469.000 ³⁾
Semi-cylinders			
To DIN 18 252 ⁴⁾	9785.040	–	9785.040
	9785.042 ⁵⁾	–	9785.042 ⁵⁾

¹⁾ Only for use with VW, Audi, SEAT, Skoda Auto, supplied without key

²⁾ With two keys

³⁾ Lock no. 2123; no other lock is possible

⁴⁾ With 3 keys for each lock insert

⁵⁾ Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs



System accessories AX

Lock system

Mini-comfort handle AX

for AX with cam lock, KX with cam lock

Prepared for the installation of lock inserts or for the installation of standard commercially available 40 or 45 mm semi-cylinders, as well as lock and push-button inserts. The lock is opened by swivelling the unlocked handle.

			
	For lock inserts or semi-cylinders	With security lock insert E1 ¹⁾	For padlocks and lock inserts or semi-cylinders
	Model No.		
	2537.100	2537.200	2537.300
Lock inserts, type A			
7 mm square	2460.000	–	2460.000
8 mm square	2461.000	–	2461.000
7 mm triangular	2462.000	–	2462.000
8 mm triangular	2463.000	–	2463.000
Screwdriver	2464.000	–	2464.000
Daimler insert	2465.000	–	2465.000
3 mm double-bit	2466.000	–	2466.000
Fiat	2307.000	–	2307.000
6.5 mm triangular	2460.650	–	2460.650
Lock and push-button inserts			
Lock insert, lock no. 3524 E ²⁾	2467.000	–	2467.000
Push-button insert	2468.000	–	2468.000
Push-button and lock insert ²⁾	2469.000 ³⁾	–	2469.000 ³⁾
Semi-cylinders			
To DIN 18 252 ⁴⁾	9785.040	–	9785.040
	9785.042 ⁵⁾	–	9785.042 ⁵⁾

¹⁾ Only for use with VW, Audi, SEAT, Skoda Auto, supplied without key

²⁾ With two keys

³⁾ Lock no. 2123; no other lock is possible



⁴⁾ With 3 keys for each lock insert

⁵⁾ Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs



Lock inserts

for installation in comfort handle AX, mini-comfort handle AX

		
	Model No.	
Lock insert, lock no. 3524 E ¹⁾	2467.000	–
Push-button insert	2468.000	–
Push-button and lock insert ¹⁾	2469.000²⁾	–
Semi-cylinder to DIN 18 252 ³⁾	–	9785.040
	–	9785.042⁴⁾

¹⁾ With two keys

²⁾ Lock no. 2123; no other lock is possible

³⁾ With 3 keys for each lock insert

⁴⁾ Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs



System accessories AX

Lock system



Lock inserts

- For
- AX with cam lock
 - AX with locking rod
 - Comfort handle AX
 - Mini-comfort handle AX

Material:

- Die-cast zinc

Type A, length 27 mm	Model No.
7 mm square	2460.000
8 mm square	2461.000
7 mm triangular	2462.000
8 mm triangular	2463.000
Screwdriver	2464.000
Daimler insert	2465.000
3 mm double-bit	2466.000
Fiat	2307.000
6.5 mm triangular	2460.650



Multiple lock

for 6 padlocks

The ideal solution in cases where several people need individual access for maintenance and repair purposes.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Packs of	Model No.
2 pc(s).	2493.500



Lock cover

for padlocks or multiple locks

For retrospective mounting on all compact enclosures AX, sheet steel, with cam lock.

Material:

- Die-cast zinc

Surface finish:

- Nickel-plated

Packs of	Model No.
1 pc(s).	2476.100



Cam lock, stainless steel

for AX, KX E-Box

With double-bit insert

Material:

- Made entirely from stainless steel 1.4404 (AISI 316L)

For	Packs of	Model No.
AX	1 pc(s).	2304.100
KX E-Box	1 pc(s).	2309.110







System accessories AX

Lock system

Enclosure key

For lock inserts. Enclosure, case and lock systems are supplied as standard with matching keys.

				
	Model No.			
	-	-	2549.000	2549.500²⁾
Double-bit no. 5	2531.000	-	■	■
Security lock no. 3524 E	-	2532.000¹⁾	-	-
7 mm triangular	2545.000	-	-	■
8 mm triangular	2546.000	-	■	■
7 mm square	2547.000	-	-	■
8 mm square	2548.000	-	■	■
für Daimler	2521.000	-	-	-
for Fiat	2308.000	-	-	-

¹⁾ Packs of 2

²⁾ With bit adaptor and reversible bit for: multi-tooth size 25 and Phillips-head (Ph 2)



180° hinge

For extending the door opening angle to 180°.

Material:

- Die-cast zinc

Supply includes:

- Assembly parts and drilling template

Packs of	Model No.
3 pc(s).	2449.010



System accessories AX

Door installation



Support strips

for door installation, for AX

For attachment of

- Cable ducts
- Cable conduit holders
- Equipment installed on the door
- Cable clamping and attachment

4.5 mm diameter hole on a 25 mm DIN pitch pattern

Installation options:

- In the AX enclosure door with cam lock

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For door width mm	Length mm	Packs of	Model No.
380	320	20 pc(s).	4599.100
400	340	20 pc(s).	4694.000
500	440	20 pc(s).	4695.000
600	540	20 pc(s).	4696.000
760	700	20 pc(s).	4599.200
800	740	20 pc(s).	4697.000



Also required:

- For installation in AX stainless steel: AX perforated door strip, stainless steel, see page 70



Accessories:

- Screws and self-tapping screws M5, see page 81

Punched section with mounting flange, 14 x 39 mm

for door installation, for AX

For the attachment of

- Cable ducts
- Cable conduit holders
- Equipment installed on the door, etc.

Installation options:

- In the AX enclosure door with locking rod

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For door width mm	Distance between attachment points mm	Packs of	Model No.
600	475	4 pc(s).	8619.720
800	675	4 pc(s).	8619.730
1000	375	4 pc(s).	8619.710
1200	475	4 pc(s).	8619.720



Also required:

- For installation in AX stainless steel: AX perforated door strip, stainless steel, see page 70



Accessories:

- Screws and self-tapping screws M5 for configuring the customer's own components on the punched section with mounting flange, see page 81

Perforated door strip

for AX stainless steel

For vertical mounting on the threaded bolts of the door.

For attachment of

- Support strips
- Punched section with mounting flange, 14 x 39 mm
- Door stay

Material:

- Sheet steel

Surface finish:

- Zinc-plated

For door height mm	Packs of	Model No.
760	2 pc(s).	2311.076
1000	2 pc(s).	2311.100
1200	2 pc(s).	2311.120



Accessories:

- Support strips, see page 70
- Punched section with mounting flange, 14 x 39 mm, see page 70
- Door stay, see page 71
- Screws, see page 81

System accessories AX

Door installation

Storage box

For fixing to all flat, clean surfaces with double-sided adhesive tape. Secure storage of CDs/DVDs, small parts such as fuses etc.

Capacity:

- Max. 10 CDs/DVDs

Material:

- Polyamide

Packs of	Model No.
1 pc(s).	2446.000



Wiring plan pockets, sheet steel

width-variable, for AX

For fastening to the perforated door strip at any height. Variable and easily adjustable in the width.

Depth: 35 mm

Colour:

- RAL 7035

Supply includes:

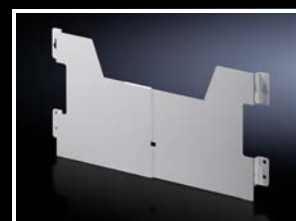
- Assembly screws

To fit door width mm	Clearance opening mm		Model No.
	Width	Height	
400, 500	325 – 425	210	2515.200
600	475 – 575	210	2515.300
760, 800	625 – 725	210	2515.400



Also required:

- For installation in AX stainless steel:
AX perforated door strip, stainless steel, see page 70



Plastic wiring plan pockets

For adhering to surfaces.

Material:

- Polystyrene with self-adhesive fastening strips

Colour:

- Similar to RAL 7035

For format	Clearance opening mm			Model No.
	W	H	D	
A3 landscape	438	286	45	2513.000
A4 portrait	228	254	17	2514.000
A5 landscape	228	174	17	2515.000



Wiring plan pockets with transparent pouch

With welded-on transparent pouch and self-adhesive backing.

For format	Model No.
A4	2510.000
A3	2512.000



Door stay AX

To secure the door in the open position. May be fitted without machining the enclosure.

Supply includes:

- Assembly parts

For	Mounting	Packs of	Model No.
AX sheet steel AX stainless steel	top/bottom	5 pc(s).	2519.010



Also required:

- For installation in AX sheet steel:
Rail for interior installation AX in the appropriate depth, see page 77
- For installation in AX stainless steel:
AX perforated door strip, stainless steel, see page 70



System accessories AX

Roof



Rain canopy

for AX

Installation options:

- Secured with adhesive; no need for machining
- May also be screw-fastened for dynamic loads

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

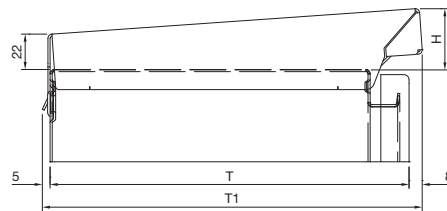
- Brushed, grain size 240

Supply includes:

- Assembly parts

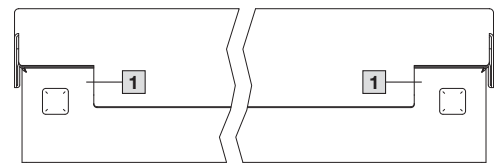
For		H	Model No.
Enclosure width mm	Enclosure depth T mm		
300	210	37	2361.010
380	210	37	2472.010
500	210	37	2362.010
600	210	37	2473.010
600	350	47	2476.010
760	300	43	2474.010
800	300	43	2475.010
1000	300	43	2363.010

Side view

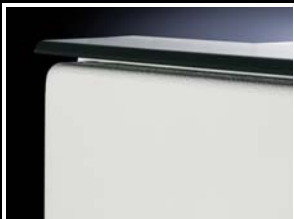


$T1 = \text{Enclosure depth } T + 13 \text{ mm}$

Rear view



1 Recess for wall mounting bracket



Dust guard trim

for AX, KX

To protect against deposits on the upper edge of the door and between the enclosure and the door/cover. Cut the dust guard trim to length according to the enclosure width. Drill the enclosure and fit the dust guard trim using the adhesive strips and screws.

Material:

- Plastic, UV-resistant

Colour:

- Similar to RAL 7024

Length mm	Model No.
1200	2426.500



Eyebolts

for AX

For crane transportation of enclosures, with reinforcement plate to be inserted underneath.

Thread: M12

Supply includes:

- Eyebolts
- Reinforcement plates

Packs of	Model No.
2 pc(s).	2509.010

System accessories AX

Wall mounting

Wall mounting bracket

for AX sheet steel, KX sheet steel

For the attachment of AX and KX sheet steel enclosures.

Benefits:

- Screw-fastened directly from the rear with a self-tapping screw in the enclosure eyelet
- As an alternative to the self-tapping screw, the support may also be secured from the inside using a screw and nut

Supply includes:

- Assembly parts

Material	Wall distance mm	Packs of	Model No.
Sheet steel, zinc-plated	8	4 pc(s).	1590.010



Wall mounting bracket

for AX stainless steel, KX stainless steel

For the attachment of AX and KX stainless steel enclosures.

Supply includes:

- Assembly parts

Note:

- For hygiene reasons, and in view of the protection category, the stainless steel enclosures do not have any drilled holes for the wall mounting bracket.

Material	Wall distance mm	Packs of	Model No.
Stainless steel 1.4301 (AISI 304)	8	4 pc(s).	1594.010



System accessories AX

Wall mounting



Wall mounting bracket

for AX sheet steel, KX sheet steel

Ideal for convenient one-person assembly and fully concealed installation of wall-mounted enclosures, even in confined spaces.

Benefits:

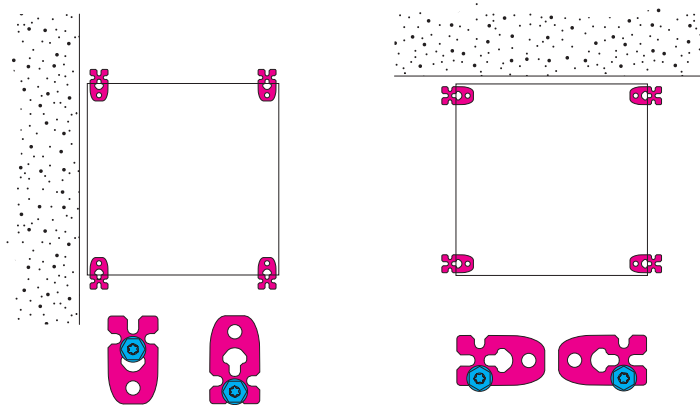
- Screw-fastened directly from the rear with a self-tapping screw in the enclosure eyelet
- Simply suspend the wall-mounted bracket from a screw in the wall
- The four different mounting positions allow the wall mounting bracket to be tailored to local conditions on site.
- As an alternative to the self-tapping screw, the support may also be secured from the inside using a screw and nut
- If necessary, the support may be finished with a stylish cover cap

Supply includes:

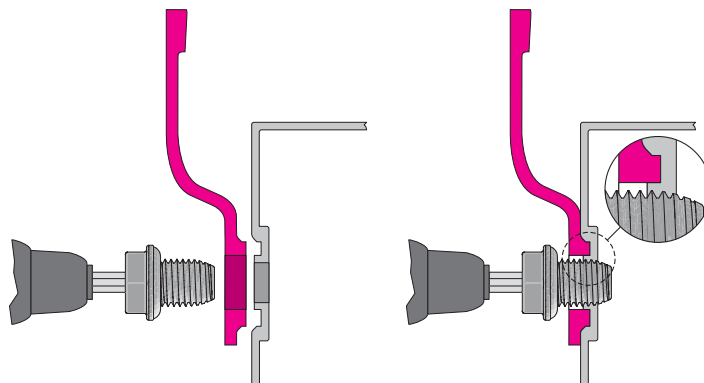
- Wall mounting brackets
- Cover cap
- Assembly parts

Material	Wall distance mm	Packs of	Model No.
Sheet steel, zinc-plated	15	4 pc(s).	2508.020
	40	4 pc(s).	2503.020

Sample applications



Attachment with self-tapping screw



System accessories AX

Wall mounting

Wall mounting bracket

for AX stainless steel, KX stainless steel

For the attachment of AX and KX stainless steel enclosures.

Benefits:

- Simply suspend the wall-mounted bracket from a screw in the wall
- The four different mounting positions allow the wall mounting bracket to be tailored to local conditions on site.
- If necessary, the support may be finished with a stylish cover cap

Supply includes:

- Wall mounting brackets
- Cover cap
- Assembly parts

Note:

- For hygiene reasons, and in view of the protection category, the stainless steel enclosures do not have any drilled holes for the wall mounting brackets

Material	Wall distance mm	Packs of	Model No.
Stainless steel 1.4301 (AISI 304)	15	4 pc(s).	2433.010
Stainless steel 1.4404 (AISI 316L)	15	4 pc(s).	2433.510



Wall angle

for AX, KX

For securing enclosures from the outside.

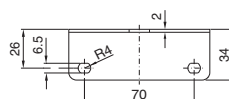
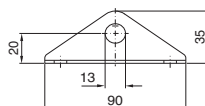
Supply includes:

- Assembly parts for mounting on the enclosure

Note:

- Additional holes required in the enclosure

Material	Colour	Packs of	Model No.
Sheet steel	RAL 7035	4 pc(s).	2505.510
Stainless steel 1.4301 (AISI 304)	-	4 pc(s).	2583.010



System accessories AX

Wall mounting



Pole clamp

for AX, KX

For reliable, convenient fastening to round or square poles.

For pole diameter / size:

- Ø from 40 to 170 mm
- □ from 50 to 150 mm

Material:

- Mounting angles, clamping section: Sheet steel
- Clamping strap: Stainless steel 1.4301 (AISI 304)

Surface finish:

- Mounting angle, clamping section: Zinc-plated

Supply includes:

- 2 mounting angles, 600 mm long
- 4 clamping sections
- 2 clamping straps
- 4 clamping brackets
- 4 self-tapping M10 bolts for mounting onto the enclosure

Packs of	Model No.
2 pc(s).	2584.100



System accessories AX

Rail systems

Rail for interior installation AX

For mounting in the enclosure, no machining required. Suitable for all-round mounting on the sides, base and roof areas.

Variable with 2 rows of system punchings, creates additional mounting space e.g. for:

- Punched section with mounting flange, 14 x 39 mm
- Enclosure lights
- Door-operated switch
- Door stay
- Cable conduit holder

Benefits:

- Only one screw for attaching the rail inside the enclosure
- Including adaptor for door-operated switch
- Compatibility with VX25 accessories
- Enclosure protection category is retained (no machining required)
- Automatic potential equalisation
- May be retro-fitted even with the mounting plate in situ, suitable for installation via gland plates

Material:

- Sheet steel

Surface finish:

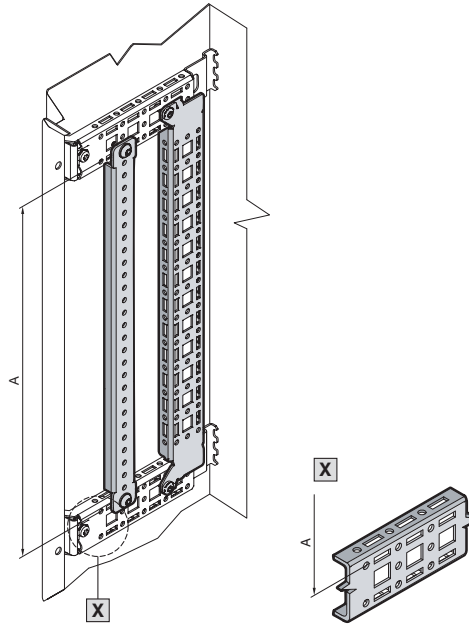
- Zinc-plated

! Also required:

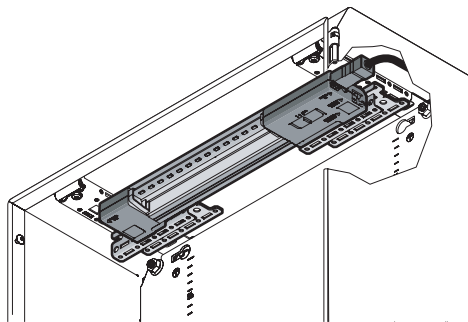
- For installing the LED system light: Mounting bracket for interior installation, see page 79

For enclosure depth mm	Packs of	Model No.
210	4 pc(s).	2393.210
250	4 pc(s).	2393.250
300	4 pc(s).	2393.300
350	4 pc(s).	2393.350
400	4 pc(s).	2393.400

Configuration examples:



A = Rail centre distance

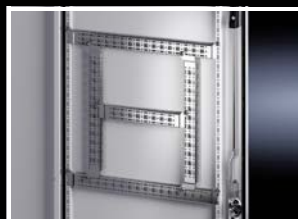


Mounting of LED system light



System accessories AX

Rail systems



Punched section with mounting flange, 14 x 39 mm

for AX

Interior installation in the enclosure height and width
Locates securely onto the interior installation rail AX or the perforated door strip.

For the attachment of

- Cable ducts
- Cable conduit holders
- Equipment installed on the door, etc.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For enclosure height/width mm	Distance between attachment points mm	Packs of	Model No.
400	275	4 pc(s).	8619.700
500	375	4 pc(s).	8619.710
600	475	4 pc(s).	8619.720
700	575	4 pc(s).	8619.760
760	635	4 pc(s).	8619.790
800	675	4 pc(s).	8619.730
1000	875	4 pc(s).	8619.750
1200	1075	4 pc(s).	8619.770
1400	1275	4 pc(s).	8619.780



Also required:

- Interior installation rail AX for configuration in the enclosure height and width, see page 77



Accessories:

- Screws and self-tapping screws M5 for configuring the customer's own components on the punched section with mounting flange, see page 81

For door width mm ¹⁾	Distance between attachment points mm	Packs of	Model No.
500	375	4 pc(s).	8619.710
600	475	4 pc(s).	8619.720
800	675	4 pc(s).	8619.730

¹⁾ For installation in doors with locking rod



Also required:

- For installation in AX stainless steel:
AX perforated door strip, stainless steel, see page 70



Accessories:

- Screws and self-tapping screws M5 for configuring the customer's own components on the punched section with mounting flange, see page 81

System accessories AX

Rail systems

Support rails TS 35/7.5 and TS 35/15

to EN 60 715 for AX, KX

Length sized to the enclosure width.

For enclosure width mm	Support rails length mm	Type	Packs of	Model No.
150	137	TS 35/7.5	10 pc(s).	2314.000
200	187		10 pc(s).	2315.000
300	287		10 pc(s).	2316.000
400	387		10 pc(s).	2317.000
500	487	TS 35/15	10 pc(s).	2318.000
600	587		10 pc(s).	2319.000



Support rails

to EN 60 715

Fixed length: 2 m

Type	Length	Packs of	Model No.
TS 35/15	2 m	6 pc(s).	2313.150
TS 35/7.5	2 m	6 pc(s).	2313.750

Mounting clip

for support rails

For fast, secure attachment of:

- Cable ducts
- Mounting plates
- Mounting angles

on support rail TS 35/7.5 and TS 35/15 to EN 60 715. Simply pre-assemble the mounting clip on the part to be installed, then snap into position on the support rail.

Packs of	Model No.
30 pc(s).	2309.000



Mounting bracket

May be screw-fastened onto all enclosures and mounting parts with system punchings on a 25 mm pitch pattern.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Packs of	Model No.
4 pc(s).	4597.000



Accessories:

- Screws, see page 81
- Cable tie for fast assembly 2597.000



System accessories AX

Assembly components



Mounting bracket

for interior installation

In conjunction with the rail for interior installation, the mounting bracket allows the LED system light to be fitted without machining and without the use of tools.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Packs of	Model No.
4 pc(s).	6205.100



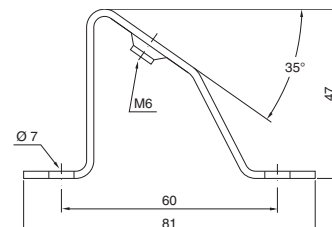
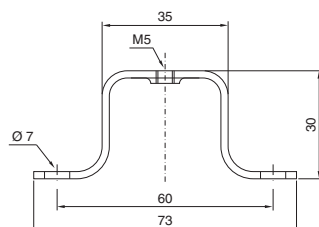
Rail mounting bracket

For individual rail mounting.

Material:

- Sheet steel, zinc-plated

Rail mounting bracket	Packs of	Model No.
Flat	20 pc(s).	2365.000
Inclined	20 pc(s).	2366.000



System accessories AX

Assembly components

Metal multi-tooth screw

For the round holes Ø 4.5 mm in the enclosure section, punched rails and punched sections without mounting flanges.

Multi-tooth drive for optimum transmission of torques, an extended tool life and increased safety and reliability when tightening and loosening screw connections.

Type of screw	Dimensions mm	Packs of	ModelNo.
Metal multi-tooth screws	5.5 x 13	300 pc(s).	2486.600
Metal multi-tooth screws for stainless steel	5 x 13	300 pc(s).	2486.400
Self-tapping screws (hex screws)	M5 x 10	500 pc(s).	2504.000
Self-tapping screws	ST 4.8 x 16	300 pc(s).	2487.000



Self-tapping screw

For the round holes Ø 4.5 mm in the enclosure section, punched rails and punched sections without mounting flanges.



Self-tapping screw

Mark, drill and tighten in a single operation using electric or pneumatic tools.

For metal thickness: 0.8 – 3 mm

Length: 16 mm

Usable length: 9.5 mm

Width across flats: 8 mm



Isolator cap

for screw head

To isolate screw heads e.g. within the cable duct.

Material:

- Plastic

Packs of	Model No.
100 pc(s).	8800.770



System accessories AX

482.6 mm (19") installation system



Swing frame, small

for 600 and 800 mm wide compact enclosures AX

For mounting 482.6 mm (19") equipment.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Cam with double-bit lock insert and parts for attaching to the installation kit

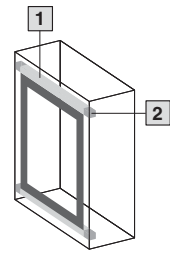
Note:

- The swing frame stay 8619.270 is required to lock the open swing frame.



Accessories:

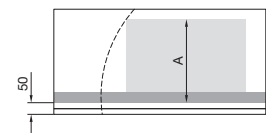
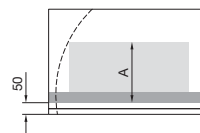
- 482.6 mm (19") fastener, 1 U, 2090.000



U	From enclosure height mm	Packs of	Model No.
3	380	1 pc(s).	8619.500
6	600	1 pc(s).	8619.510
9	600	1 pc(s).	8619.520
12	760	1 pc(s).	8619.530

Also required:

	For enclosure width mm		
1 Installation kit	600	1 pc(s).	8619.600
	800	1 pc(s).	8619.610
2 Mounting kit AX	600	4 pc(s).	2034.010
	800		



Enclosure dimensions		A = max. installation depth mm with internal mounting	
Width	Depth	Centre	Side
600	210	130	-
600	250	170	-
600	350	220	-
600	400	220	-
800	300	210	210
800	400	310	310



Installation kit

for swing frame, small

For mounting the small swing frame in compact enclosures AX.

Load capacity:

- Up to 1500 N

Material:

- Sheet steel

Surface finish:

- Nickel-plated

Supply includes:

- Assembly parts

For enclosure width mm	Packs of	Model No.
600	1 pc(s).	8619.600
800	1 pc(s).	8619.610



Also required:

- For mounting in compact enclosures AX: Mounting kit AX



Mounting kit AX

for installation kit for swing frame, small

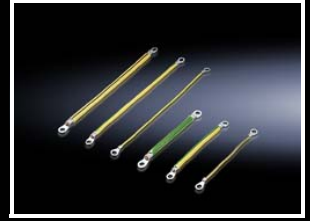
For mounting the small swing frame in compact enclosures AX.

Packs of	Model No.
4 pc(s).	2034.010

Earth straps

For configuring a reliable earthing connection with perfect contact

- With ring terminals to match the earthing screws
- Length-optimised and ready to install



For AX enclosures

Connection option			Cross-section mm ²	Length mm	Packs of	Model No.
Door	Enclosure	Mounting plate				
M8	M8	M8	4	170	5 pc(s).	2564.000
			16	170	5 pc(s).	2565.000
			25	170	5 pc(s).	2566.000
			4	300	5 pc(s).	2567.000
			10	300	5 pc(s).	2565.120
			16	300	5 pc(s).	2568.000
			25	300	5 pc(s).	2569.000



System accessories AX

ISV distribution enclosures, installation kits



ISV installation kit

for AX

For mounting ISV installation modules in the enclosure.

Supply includes:

- Assembly kit
- Support rails
- Contact hazard protection
- Assembly parts



Accessories:

- Mounting angles, see page 84

For enclosure width mm	380	500	600	600	600	1000
For enclosure height mm	600	700	760	1000	1200	1200
For enclosure depth mm	210	250	210	250	300	300
To fit Model No.	1008.000/ 1038.000	1057.000	1012.000/ 1076.000	1090.000	1260.000	1305.000/ 1019.000/ 1213.000
Width units (WU) @ 250 mm	1	1	2	2	2	3
Height units (U) @ 150 mm	3	4	4	6	7	7
Packs of	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).
Model No.	9666.801	9666.811	9666.821	9666.831	9666.841	9666.851



Mounting angles ISV

for AX

For vertical sub-division of the support frame in the enclosure.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Height unit		Packs of	Model No.
U	mm		
3	450	2 pc(s).	9666.753
4	600	2 pc(s).	9666.754
6	900	2 pc(s).	9666.756
7	1050	2 pc(s).	9666.757

1 U $\hat{=}$ 150 mm

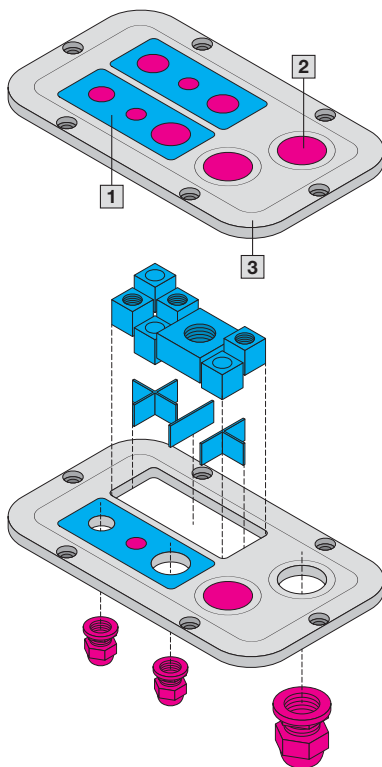
Cable entry, modular

The modular cable gland offers extensive flexibility with the entry of assembled and unassembled cables, with or without connectors. Depending on the cable cross-section, suitable modules may be selected to retain the high protection category of IP 66 after cable entry.

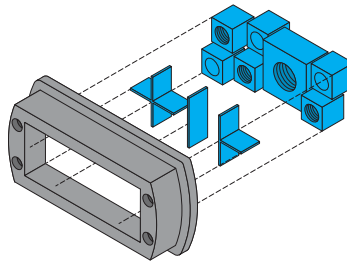
The gland plate design also supports mixed use with standard cable glands. In this way, even cables prefitted with connectors may be safely inserted into the enclosure retrospectively. The gland plate version offers seven different gland plate sizes. The system may be used as a sealing frame on any sufficiently large surface.

Modular cable entry as gland plate for AX

- 1 Cable entry, modular
- 2 Cable glands, see page 91
- 3 Plastic gland plates, see page 87



Modular cable entry as sealing frame plate for AX, KX



Sealing frame

for cable entry, modular

For the universal use of the cable gland, on a modular basis on all surfaces and walls, for feeding through pre-fabricated cables with connectors. Can also be mounted onto 24-pole or 16-pole connector cut-outs.

Material:

- Plastic

Colour:

- Black

Protection category IP to IEC 60 529

- IP 66

Supply includes:

- Sealing frame
- Locking frame

Number of small seal inserts	For cut-out mm	Model No.
10	113.5 x 46 (24-pole)	2583.100
8	91 x 46 (16-pole)	2583.080



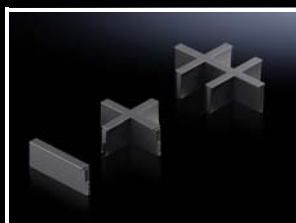
Also required:

- Inlay for cable entry, modular, see page 86
- Seal inserts for cable entry, modular, see page 86



System accessories AX

Cable gland



Inlay

for cable entry, modular

Individual inserts to subdivide the cut-outs in the plastic gland plate and the sealing frame for the modular cable gland.

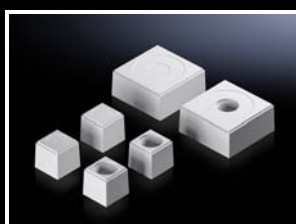
Material:

– Plastic

Colour:

– Black

Version	Packs of	Model No.
1 slot	5 pc(s).	2582.100
2 slots	5 pc(s).	2582.200
4 slots	5 pc(s).	2582.400
6 slots	5 pc(s).	2582.600



Seal inserts

for cable entry, modular

In conjunction with the inlays, the seal inserts allow individual cable entry, even with preassembled cables.

Material:

– Plastic

Colour:

– RAL 7035



Accessories:

- When using as a gland plate:
Locking clip for seal inserts,
see page 86

Seal inserts, small

For cable diameter	Packs of	Model No.
Solid	10 pc(s).	2580.000
3 mm	10 pc(s).	2580.003
4 mm	10 pc(s).	2580.004
5 mm	10 pc(s).	2580.005
6 mm	10 pc(s).	2580.006
7 mm	10 pc(s).	2580.007
8 mm	10 pc(s).	2580.008
9 mm	10 pc(s).	2580.009
10 mm	10 pc(s).	2580.010
11 mm	10 pc(s).	2580.011
12 mm	10 pc(s).	2580.012
13 mm	10 pc(s).	2580.013
14 mm	10 pc(s).	2580.014

Seal inserts, large

For cable diameter	Packs of	Model No.
Solid	5 pc(s).	2580.100
15 mm	5 pc(s).	2580.115
16 mm	5 pc(s).	2580.116
17 mm	5 pc(s).	2580.117
18 mm	5 pc(s).	2580.118
19 mm	5 pc(s).	2580.119
20 mm	5 pc(s).	2580.120
21 mm	5 pc(s).	2580.121
22 mm	5 pc(s).	2580.122
23 mm	5 pc(s).	2580.123
24 mm	5 pc(s).	2580.124
25 mm	5 pc(s).	2580.125



Locking clip for seal inserts

for cable entry, modular

The locking clips ensure the seal inserts are held securely and cannot be accidentally pushed into the enclosure.

Material:

– Plastic

Packs of	Model No.
10 pc(s).	2583.120

System accessories AX

Gland plates

Plastic gland plates

for cable entry, modular,
with metric knockouts, for AX

Simply pierce the plastic knockouts, and pull through the cable. Additional rectangular cut-outs and reinforcement frames allow the modular cable gland to be installed directly.

Temperature range:

– Suitable for use from -40 °C...+80 °C

Material:

– Plastic to UL 94-V0

Colour:

– RAL 7035

Protection category IP to IEC 60 529:

– IP 66 if installed correctly

Note:

– The applicable size may be taken from the relevant product ordering page

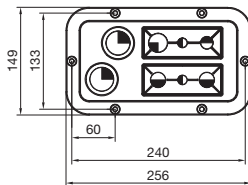


Accessories:

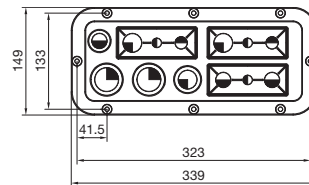
- Cable entry, modular, see page 85
- Cable glands, see page 91

Model No.	2561.200	2562.200	2563.200	2564.200	2565.200	2566.200	2567.200
Packs of	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).
Gland plate	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6	Size 7
Dimensions W x D mm	256 x 149	339 x 149	447 x 149	534 x 149	301 x 221	401 x 221	436 x 221
	Diameter mm		Number of cable entries				
	M12	2	3	4	5	4	4
	M16	1	2	3	4	3	5
	M20	2	3	5	6	4	5
	M25	1	3	3	5	3	4
	M32	2	2	1	1	1	4
	M40	–	–	1	1	1	1
	M50	–	–	–	–	–	1
Rectangular cut-outs	2	3	4	6	5	6	6

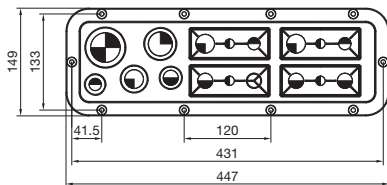
Size 1



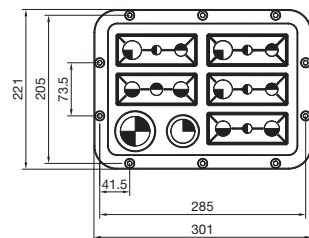
Size 2



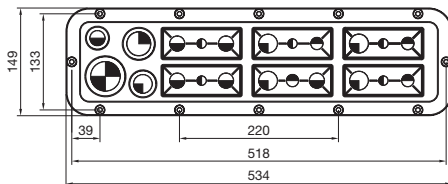
Size 3



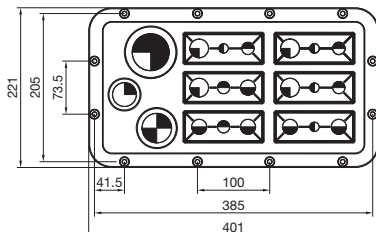
Size 5



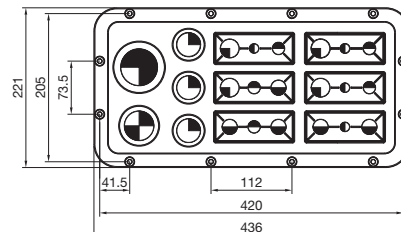
Size 4



Size 6



Size 7



System accessories AX

Gland plates



Plastic gland plates

with membranes, for AX

Simply pierce the plastic with a sharp object, and pull through the cable.

Material:

– Plastic to UL 94-V0

Colour:

– Similar to RAL 7035

Protection category IP to IEC 60 529:

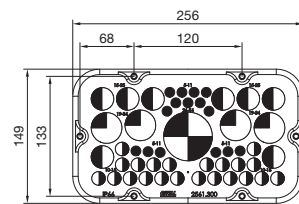
– IP 66 if installed correctly

Note:

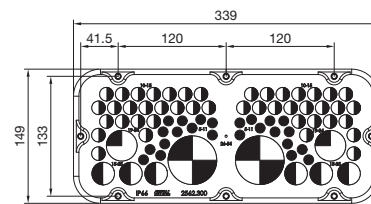
– The applicable size may be taken from the relevant product ordering page

Model No.	2561.300	2562.300	2563.300	2564.300	2565.300	2566.300	2567.300
Packs of	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).
Gland plate	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6	Size 7
Dimensions W x D mm	256 x 149	339 x 149	447 x 149	534 x 149	301 x 221	401 x 221	436 x 221
	Diameter mm		Number of cable entries				
●	5 – 11	15	24	36	28	30	30
◐	10 – 15	22	44	46	48	40	50
◑	15 – 25	8	6	8	8	5	8
◒	19 – 34	4	2	2	2	2	2
◓	26 – 35	–	–	4	2	–	2
◔	26 – 54	1	2	2	2	2	2
○	50 – 110	–	–	–	1	1	1

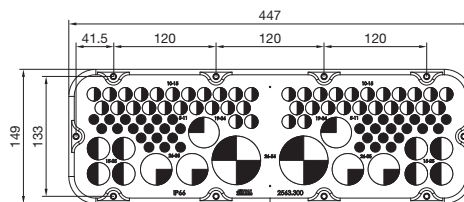
Size 1



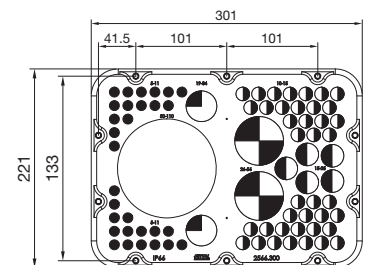
Size 2



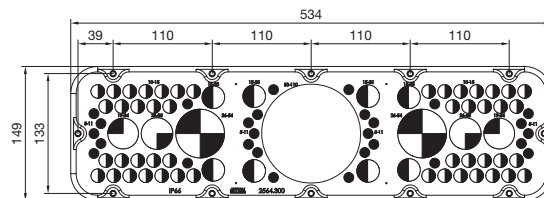
Size 3



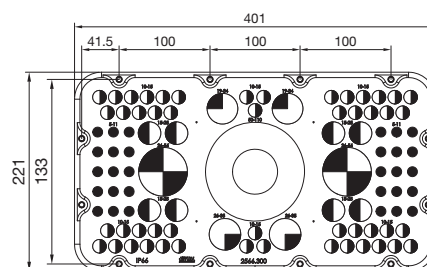
Size 5



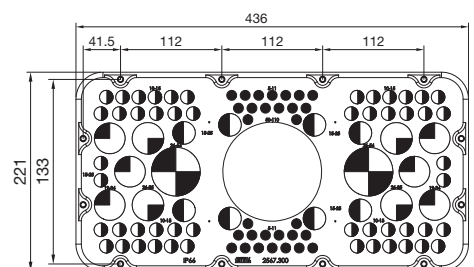
Size 4



Size 6



Size 7



System accessories AX

Gland plates

Metal gland plates

with metric knockouts, for AX

Simply knock out the holes for the cable glands using a screwdriver.

Material:

– Sheet steel

Colour:

– RAL 7035

Protection category IP to IEC 60 529:

– IP 66 if installed correctly

Note:

– The applicable size may be taken from the relevant product ordering page



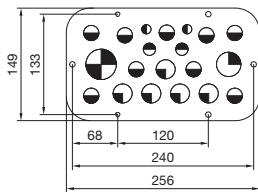
Accessories:

– Cable glands made from polyamide or brass, see page 91

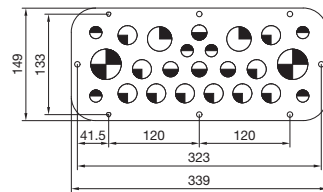


Model No.	2571.100	2572.100	2573.100	2574.100	2575.100	2576.100	2577.100	
Packs of	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	
Gland plate	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6	Size 7	
Dimensions W x D mm	256 x 149	339 x 149	447 x 149	534 x 149	301 x 221	401 x 221	436 x 221	
	Diameter mm		Number of cable entries					
	M12	2	–	4	1	2	2	6
	M16	2	6	4	6	10	10	10
	M20	9	4	7	8	8	8	8
	M25	5	10	15	11	10	18	20
	M32	1	2	2	6	2	4	4
	M40	1	2	2	4	4	4	4

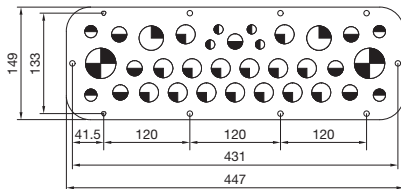
Size 1



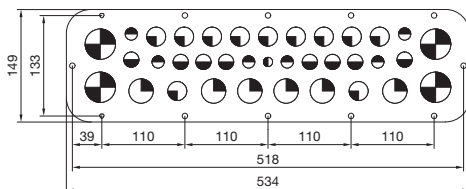
Size 2



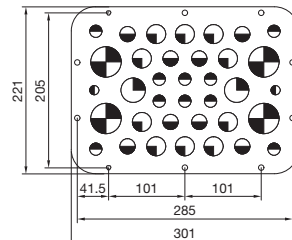
Size 3



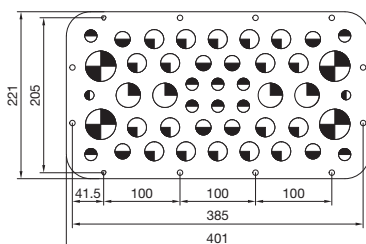
Size 4



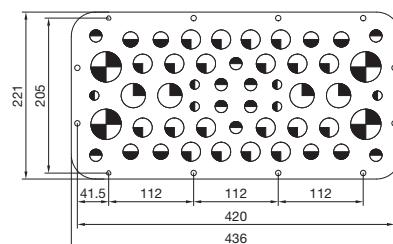
Size 5



Size 6

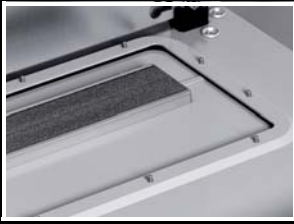


Size 7



System accessories AX

Gland plates/Connector glands



Gland plates

with rubber cable clamp strip, for AX

For feeding through pre-fabricated cables when the gland plate has already been fitted to the enclosure. Split gland plates can be sealed using movable plates with a rubber cable clamp strip.

Material:

– Gland plate: Sheet steel

Colour:

– RAL 7035

Protection category IP to IEC 60 529:

– IP 55 if installed correctly

Gland plate size	Dimensions mm	Packs of	Model No.
5	301 x 221	1 pc(s).	2565.400
6	401 x 221	1 pc(s).	2566.400
7	436 x 221	1 pc(s).	2567.400



Connector gland, small

For pre-assembled cables with connectors.

- For use with material thickness of up to 4 mm
- Strain relief of the pre-assembled cables can be achieved with cable ties

Material:

– Plastic

Colour:

– RAL 9005

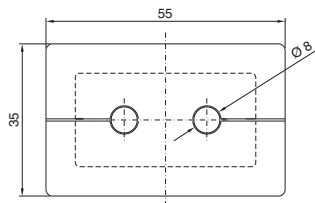
Protection category IP to IEC 60 529:

– IP 65 if installed correctly

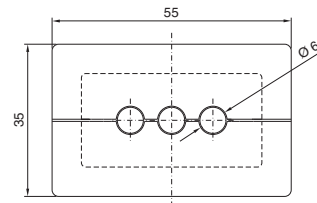
Supply includes:

– Assembly parts

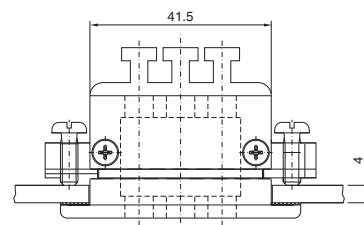
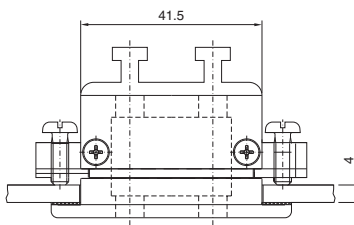
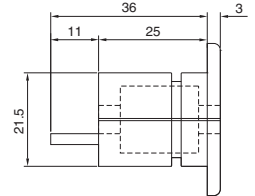
To fit	Packs of	Model No.
2 cables Ø 6 – 8 mm	1 pc(s).	2400.300
3 cables Ø 4 – 6 mm	5 pc(s).	2400.500



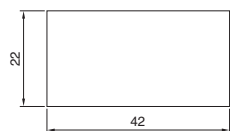
2400.300



2400.500



Mounting cut-out



System accessories AX

Cable glands

Cable gland, brass

Benefits:

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage
- Clamping membranes ensure even tightening and strain relief, which in turn protects the cables

Material:

- Brass
- Seal: TPE/NBR

Surface finish:

- Nickel-plated

Protection category IP to IEC 60 529:

- IP 68 (1 bar, 30 min.)

Approvals:

- VDE

Size	Packs of	Model No.
M12 x 1.5	15 pc(s).	2411.801
M16 x 1.5	15 pc(s).	2411.811
M20 x 1.5	10 pc(s).	2411.821
M25 x 1.5	10 pc(s).	2411.831
M32 x 1.5	5 pc(s).	2411.841
M40 x 1.5	4 pc(s).	2411.851
M50 x 1.5	2 pc(s).	2411.861
M63 x 1.5	1 pc(s).	2411.871



Cable gland, polyamide

Benefits:

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage
- Clamping membranes ensure even tightening and strain relief, which in turn protects the cables

Material:

- Polyamide 6
- Seal: Neoprene

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 68 (1 bar, 30 min.)

Approvals:

- VDE

Size	Packs of	Model No.
M12 x 1.5	50 pc(s).	2411.601
M16 x 1.5	50 pc(s).	2411.611
M20 x 1.5	50 pc(s).	2411.621
M25 x 1.5	25 pc(s).	2411.631
M32 x 1.5	15 pc(s).	2411.641
M40 x 1.5	5 pc(s).	2411.651
M50 x 1.5	5 pc(s).	2411.661
M63 x 1.5	3 pc(s).	2411.671



EMC cable gland

The cable sheathing may optionally be interrupted at the contact point or removed completely inside the enclosure. The cable shielding in the enclosure is retained. The supplied lock nut cuts automatically into the paint when screwed onto spray-finished enclosure surfaces, thus creating a conductive connection.

Protection category IP to IEC 60 529:

- IP 68

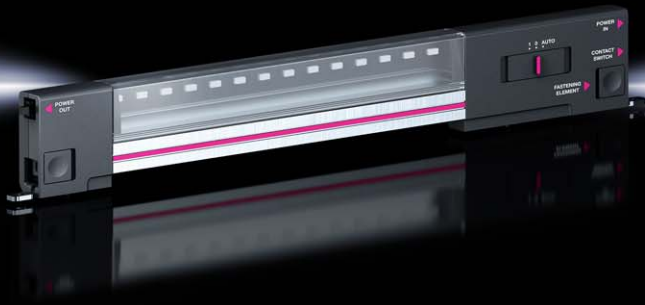
Cable glands, metric

Size	Cable diameter mm	Minimum shield diameter ¹⁾ mm	Packs of	Model No.
M16	4.5 – 10	3	5 pc(s).	2843.160
M20	6 – 12	5	5 pc(s).	2843.200
M25	11 – 17	8	5 pc(s).	2843.250
M32	15 – 21	10	1 pc(s).	2843.320
M40	19 – 28	15	1 pc(s).	2843.400
M50	27 – 38	19	1 pc(s).	2843.500
M63	34 – 44	30	1 pc(s).	2843.630

¹⁾ Minimum shield diameter = cable diameter minus cable sheathing



LED system light



Compact enclosures AX Page 30 **Connection accessories** Page 93

Benefits:

- Optimum illumination of the entire enclosure
- Optionally with clip, screw or magnetic attachment
- Equipment to suit every application

Material:

- Plastic
- Aluminium

Colour:

- Enclosure: RAL 7016

Light colour:

- 4000 K (neutral white)

Supply includes:

- Assembly screws

Note:

- Connection accessories should be ordered separately
- Further information on country-specific versions can be found on the Internet
- Other system lights, e.g. with a higher luminosity and with motion detector can be found on the Internet

Model No.		2500.114	2500.110	2500.104	2500.100
Output (lumens)		600	600	400	400
Length (mm)		337	337	262	262
Rated operating voltage	100 – 240 V AC	■	■	■	■
Protection class		II (all-insulated)			
Approvals	UL	■	–	■	–
	cUL	■	–	■	–
	CCC	■	■	■	■
	ENEC	■	■	■	■
Installation type	Screw-fastening	■	■	■	■
	Clip attachment	■	■	■	■
	Magnetic attachment to surfaces (accessory)	■	■	■	■
Connection options	Infeed	2-pole	2-pole	2-pole	2-pole
	Through-wiring	2-pole	2-pole	2-pole	2-pole
	Door-operated switch (accessory)	■	■	■	■
Accessories					
Rail for interior installation		see page 77			
Mounting kit magnet		2500.490	2500.490	2500.490	2500.490
Door-operated switch		–	2500.460	–	2500.460
Door-operated switch, UL		2500.470	–	2500.470	–
Also required: Connection accessories depending on application type					
Infeed, 2-pole		–	2500.420	–	2500.420
Infeed, 2-pole, UL		2500.520	–	2500.520	–
Through-wiring, 2-pole		–	2500.450	–	2500.450
Through-wiring, 2-pole, UL		2500.550	–	2500.550	–

LED system light

Accessories

Connection accessories

for LED system light

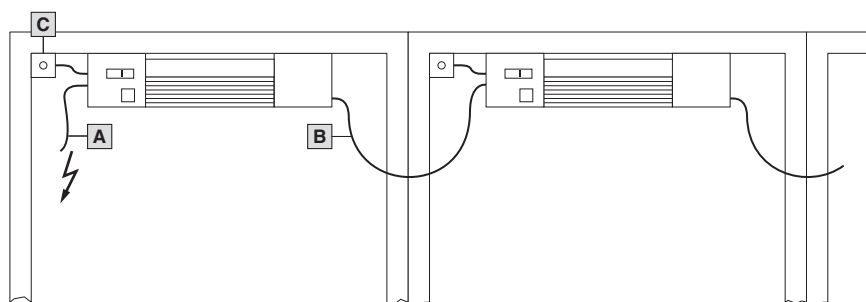
The following components can be used for time-saving, easy installation of the lights:

+ Accessories:

- Cable ties 2597.000

Connection cable for	UL	Length mm	Packs of	Model No. orange
[1] Infeed, 2-pole, 100 – 240 V AC	■	3000	1 pc(s).	2500.520
[1] Infeed, 2-pole, 100 – 240 V AC	-	3000	5 pc(s).	2500.420
[2] Through-wiring, 2-pole, 100 – 240 V AC	■	1000	1 pc(s).	2500.550
[2] Through-wiring, 2-pole, 100 – 240 V AC	-	1000	5 pc(s).	2500.450

- A** Connection cable for infeed
- B** Connection cable for through-wiring
- C** Door-operated switch with connection cable (not required for LED system light with integral motion sensor)



Door-operated switch

for LED system light

Supply includes:

- Assembly parts

	UL	Length mm	To fit	Packs of	Model No. black
Connection cable	-	800	230 V AC/24 V DC, 1 A	1 pc(s).	2500.460
	■	800		1 pc(s).	2500.470

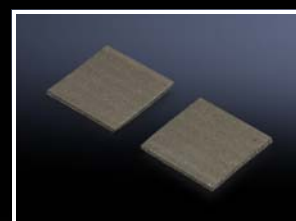


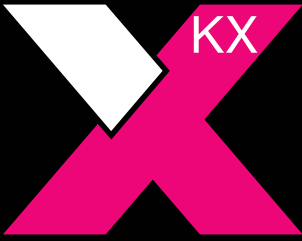
Mounting kit magnet

for LED system light

For sticking onto the rear of lights without a socket.

Packs of	Model No.
2 pc(s).	2500.490





TERMINAL BOXES KX – MORE **PRECISE**

Consistent use of self-centring mini cam locks that can be installed without needing tools increases the level of precision and the size of the access opening.





Full utilisation of space

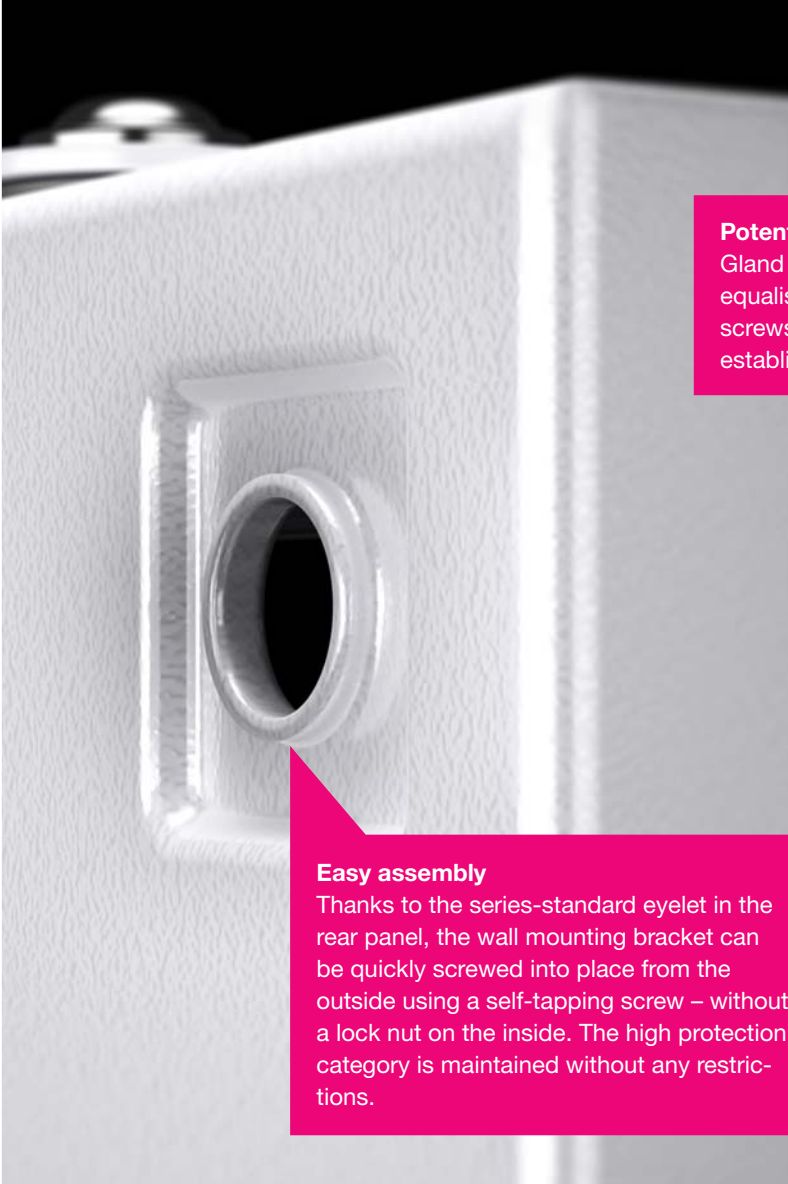
The support rails can be mounted either on the front of the integrated perforated mounting strip or, for better utilisation of the enclosure depth, directly on the enclosure's rear panel.

Precision

The mini cam lock works almost instantaneously. Even when locking, just a quarter of a turn is sufficient to correctly centre and completely seal the lid.

Reliability

The folded edge of the enclosure has a deliberately flat design that offers a generous and secure bearing surface for the seamless PU foam gasket and thus helps maintain protection category IP 66.



Potential equalisation

Gland plate mounting includes automatic potential equalisation. This is ensured by two self-tapping screws that are guided through special holes to establish contact.

Easy assembly

Thanks to the series-standard eyelet in the rear panel, the wall mounting bracket can be quickly screwed into place from the outside using a self-tapping screw – without a lock nut on the inside. The high protection category is maintained without any restrictions.



Protection category maintained

The seamless PU foam gasket makes it possible to maintain the protection category within a temperature range of $-20\text{ }^{\circ}\text{C}$ to $+80\text{ }^{\circ}\text{C}$ and can be over-painted if necessary.

Earthing

The PE conductor connection enables extremely quick and easy earthing, even retrospectively.



Small enclosures KX

Terminal boxes KX, sheet steel, without gland plate



System accessories Page 126 **Terminal boxes KX, stainless steel** Page 103

Material:

- Enclosure: Sheet steel
- Cover: Sheet steel, all-round foamed-in PU seal

Surface finish:

- Enclosure and cover: Dipcoat-primed, powder-coated on the outside, textured paint

Colour:

- RAL 7035

Protection category IP to IEC

- 60 529:**
- IP 66

Protection category NEMA:

- NEMA 4

Supply includes:

- Enclosure with cover
- Mini cam locks

Approvals:

- UL
- cUL
- CSA

Further approvals can be found on the Internet.

Terminal boxes KX, sheet steel, without gland plate

Width mm	Packs of	150	200	200	300	300	400	Page
Height mm		150	150	200	150	200	200	
Depth mm		80	80	80	80	80	80	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	1.25	1.25	
Material thickness – cover mm		1.25	1.25	1.25	1.25	1.25	1.25	
Model No.	1 pc(s).	1514.000	1528.000	1516.000	1515.000	1517.000	1518.000	
Weight, approx. kg		1.4	1.6	1.9	2.1	2.6	3.2	
Mini cam lock		4	4	4	4	4	4	

Accessories

Wall mounting bracket, for AX sheet steel, KX sheet steel	4 pc(s).	1590.010	1590.010	1590.010	1590.010	1590.010	1590.010	129
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	131
Mounting plates	1 pc(s).	1560.800	1575.800	1562.800	1561.800	1563.800	1564.800	132
Support rails TS 35/7.5	10 pc(s).	2314.000	2315.000	2315.000	2316.000	2316.000	2317.000	132
Support rails TS 35/15		–	–	–	–	–	–	
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2365.000	2365.000	2365.000	2365.000	2365.000	2365.000	80
Mounting claw for second mounting level	20 pc(s).	2309.100	2309.100	2309.100	2309.100	2309.100	2309.100	133
Cover retainer	6 pc(s).	1591.100	1591.100	1591.100	1591.100	1591.100	1591.100	128
Cover hinge	6 pc(s).	1592.200	1592.200	1592.200	1592.200	1592.200	1592.200	128
Earth straps	5 pc(s).	2565.100	2565.100	2565.100	2565.100	2565.100	2565.100	133
Baying kit		–	–	–	–	–	–	
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	2487.000	2487.000	81
Connector gland	5 pc(s).	2400.500	2400.500	2400.500	2400.500	2400.500	2400.500	134

Small enclosures KX

Terminal boxes KX, sheet steel, without gland plate

Width mm	Packs of	150	200	200	300	300	Page
Height mm		150	150	200	150	200	
Depth mm		120	120	120	120	120	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	1.25	
Material thickness – cover mm		1.25	1.25	1.25	1.25	1.25	
Model No.	1 pc(s).	1500.000	1529.000	1502.000	1501.000	1503.000	
Weight, approx. kg		1.6	1.8	2.3	2.6	3.0	
Mini cam lock		4	4	4	4	4	

Accessories

Wall mounting bracket, for AX sheet steel, KX sheet steel	4 pc(s).	1590.010	1590.010	1590.010	1590.010	1590.010	129
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	131
Mounting plates	1 pc(s).	1560.800	1575.800	1562.800	1561.800	1563.800	132
Support rails TS 35/7.5	10 pc(s).	2314.000	2315.000	2315.000	2316.000	2316.000	132
Support rails TS 35/15		–	–	–	–	–	
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2366.000	2366.000	2366.000	2366.000	2366.000	80
Mounting claw for second mounting level	20 pc(s).	2309.100	2309.100	2309.100	2309.100	2309.100	133
Cover retainer	6 pc(s).	1591.100	1591.100	1591.100	1591.100	1591.100	128
Cover hinge	6 pc(s).	1592.200	1592.200	1592.200	1592.200	1592.200	128
Earth straps	5 pc(s).	2565.050	2565.050	2565.050	2565.050	2565.050	133
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	126
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	2487.000	81
Connector gland	5 pc(s).	2400.500	2400.500	2400.500	2400.500	2400.500	134

Terminal boxes KX, sheet steel, without gland plate

Width mm	Packs of	300	400	400	400	400	500	Page
Height mm		300	150	200	300	400	200	
Depth mm		120	120	120	120	120	120	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	1.25	1.25	
Material thickness – cover mm		1.25	1.25	1.25	1.25	1.25	1.25	
Model No.	1 pc(s).	1507.000	1589.000	1504.000	1508.000	1511.000	1505.000	
Weight, approx. kg		4.0	3.2	3.6	4.8	6.2	4.4	
Mini cam lock		4	4	4	4	4	4	

Accessories

Wall mounting bracket, for AX sheet steel, KX sheet steel	4 pc(s).	1590.010	1590.010	1590.010	1590.010	1590.010	1590.010	129
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	131
Mounting plates	1 pc(s).	1567.800	1576.800	1564.800	1568.800	1571.800	1565.800	132
Support rails TS 35/7.5	10 pc(s).	2316.000	2317.000	2317.000	2317.000	2317.000	–	132
Support rails TS 35/15	10 pc(s).	–	–	–	–	–	2318.000	132
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2366.000	2366.000	2366.000	2366.000	2366.000	2366.000	80
Mounting claw for second mounting level	20 pc(s).	2309.100	2309.100	2309.100	2309.100	2309.100	2309.100	133
Cover retainer	6 pc(s).	1591.100	1591.100	1591.100	1591.100	1591.100	1591.100	128
Cover hinge	6 pc(s).	1592.200	1592.200	1592.200	1592.200	1592.200	1592.200	128
Earth straps	5 pc(s).	2565.050	2565.050	2565.050	2565.050	2565.050	2565.050	133
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	126
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	2487.000	2487.000	81
Connector gland	5 pc(s).	2400.500	2400.500	2400.500	2400.500	2400.500	2400.500	134

Small enclosures KX

Terminal boxes KX, sheet steel, without gland plate

Width mm	Packs of	500	600	600	600	800	800	Page
Height mm		300	200	300	400	200	400	
Depth mm		120	120	120	120	120	120	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	1.25	1.25	
Material thickness – cover mm		1.25	1.25	1.25	1.25	1.25	1.25	
Model No.	1 pc(s).	1509.000	1506.000	1510.000	1512.000	1527.000	1513.000	
Weight, approx. kg		5.8	5.7	6.8	8.4	6.8	11.0	
Mini cam lock		4	6	6	6	6	6	
Accessories								
Wall mounting bracket, for AX sheet steel, KX sheet steel	4 pc(s).	1590.010	1590.010	1590.010	1590.010	1590.010	1590.010	129
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	131
Mounting plates	1 pc(s).	1569.800	1566.800	1570.800	1572.800	1574.800	1573.800	132
Support rails TS 35/7.5		–	–	–	–	–	–	
Support rails TS 35/15	10 pc(s).	2318.000	2319.000	2319.000	2319.000	–	–	132
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2366.000	2366.000	2366.000	2366.000	2366.000	2366.000	80
Mounting claw for second mounting level	20 pc(s).	2309.100	2309.100	2309.100	2309.100	2309.100	2309.100	133
Cover retainer	6 pc(s).	1591.100	1591.100	1591.100	1591.100	1591.100	1591.100	128
Cover hinge	6 pc(s).	1592.200	1592.200	1592.200	1592.200	1592.200	1592.200	128
Earth straps	5 pc(s).	2565.050	2565.050	2565.050	2565.050	2565.050	2565.050	133
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	126
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	2487.000	2487.000	81
Connector gland	5 pc(s).	2400.500	2400.500	2400.500	2400.500	2400.500	2400.500	134



Small enclosures KX

Terminal boxes KX, sheet steel, with gland plate



System accessories Page 126 **Terminal boxes KX, stainless steel** Page 103

Material:

- Enclosure: Sheet steel
- Cover: Sheet steel, all-round foamed-in PU seal

Surface finish:

- Enclosure and cover: Dipcoat-primed, powder-coated on the outside, textured paint

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55

Protection category NEMA:

- NEMA 12

Supply includes:

- Enclosure with cover
- Mini cam locks
- Sheet steel gland plates with seals and assembly parts

Approvals:

- UL
 - cUL
 - CSA
- Further approvals can be found on the Internet.

Terminal boxes KX, sheet steel, with gland plate

Width mm	Packs of	300	300	300	400	400	400	500	Page
Height mm		150	200	300	200	300	400	200	
Depth mm		120	120	120	120	120	120	120	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	1.25	1.25	1.25	
Material thickness – cover mm		1.25	1.25	1.25	1.25	1.25	1.25	1.25	
Model No.	1 pc(s).	1530.000	1531.000	1535.000	1532.000	1536.000	1539.000	1533.000	
Weight, approx. kg		2.7	3.3	4.5	4.0	5.2	6.7	4.9	
Mini cam lock		4	4	4	4	4	4	4	
Gland plate (top + bottom), qty.		1 + 1	1 + 1	1 + 1	1 + 1	1 + 1	1 + 1	2 + 2	
Gland plate (left + right), qty.		-	-	1 + 1	-	1 + 1	1 + 1	-	
Accessories									
Wall mounting bracket, for AX sheet steel, KX sheet steel	4 pc(s).	1590.010	1590.010	1590.010	1590.010	1590.010	1590.010	1590.010	129
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	131
Mounting plates	1 pc(s).	1561.800	1563.800	1567.800	1564.800	1568.800	1571.800	1565.800	132
Support rails TS 35/7.5	10 pc(s).	2316.000	2316.000	2316.000	2317.000	2317.000	2317.000	-	132
Support rails TS 35/15		-	-	-	-	-	-	-	
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2366.000	2366.000	2366.000	2366.000	2366.000	2366.000	2366.000	80
Mounting claw for second mounting level	20 pc(s).	2309.100	2309.100	2309.100	2309.100	2309.100	2309.100	2309.100	133
Cover retainer	6 pc(s).	1591.100	1591.100	1591.100	1591.100	1591.100	1591.100	1591.100	128
Cover hinge	6 pc(s).	1592.200	1592.200	1592.200	1592.200	1592.200	1592.200	1592.200	128
Metal gland plates	1 pc(s).	1581.200	1581.200	1581.200	1581.200	1581.200	1581.200	1581.200	134
Earth straps	5 pc(s).	2565.050	2565.050	2565.050	2565.050	2565.050	2565.050	2565.050	133
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	126
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	2487.000	2487.000	2487.000	81
Connector gland	5 pc(s).	2400.500	2400.500	2400.500	2400.500	2400.500	2400.500	2400.500	134

Small enclosures KX

Terminal boxes KX, sheet steel, with gland plate

Width mm	Packs of	500	600	600	800	Page
Height mm		300	300	400	400	
Depth mm		120	120	120	120	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	
Material thickness – cover mm		1.25	1.25	1.25	1.25	
Model No.	1 pc(s).	1537.000	1538.000	1540.000	1541.000	
Weight, approx. kg		5.2	7.7	9.0	12.0	
Mini cam lock		4	6	6	6	
Gland plate (top + bottom), qty.		2 + 2	2 + 2	2 + 2	3 + 3	
Gland plate (left + right), qty.		1 + 1	1 + 1	1 + 1	1 + 1	

Accessories						
Wall mounting bracket, for AX sheet steel, KX sheet steel	4 pc(s).	1590.010	1590.010	1590.010	1590.010	129
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	131
Mounting plates	1 pc(s).	1569.800	1570.800	1572.800	1573.800	132
Support rails TS 35/7.5		–	–	–	–	
Support rails TS 35/15	10 pc(s).	2318.000	2319.000	2319.000	–	132
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2366.000	2366.000	2366.000	2366.000	80
Mounting claw for second mounting level	20 pc(s).	2309.100	2309.100	2309.100	2309.100	133
Cover retainer	6 pc(s).	1591.100	1591.100	1591.100	1591.100	128
Cover hinge	6 pc(s).	1592.200	1592.200	1592.200	1592.200	128
Metal gland plates	1 pc(s).	1581.200	1581.200	1581.200	1581.200	134
Earth straps	5 pc(s).	2565.050	2565.050	2565.050	2565.050	133
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	126
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	81
Connector gland	5 pc(s).	2400.500	2400.500	2400.500	2400.500	134



Rittal – The System.

Wall mounting bracket

Small enclosures KX

Terminal boxes KX, stainless steel, without gland plate



System accessories Page 126 **Terminal boxes KX, sheet steel** Page 98

Material:

- Enclosure: Stainless steel 1.4301 (AISI 304)
- Cover: Stainless steel 1.4301 (AISI 304), all-round foamed-in PU seal

Surface finish:

- Enclosure and cover: Brushed, grain size 400

Protection category IP to IEC

- 60 529:**
- IP 66

Protection category NEMA:

- NEMA 4X

Supply includes:

- Enclosure with cover
- Mini cam locks

Approvals:

- UL
- cUL
- CSA

Further approvals can be found on the Internet.

Terminal boxes KX, stainless steel, without gland plate

Width mm	Packs of	150	150	300	200	200	Page
Height mm		150	150	150	200	200	
Depth mm		80	120	80	80	120	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	1.25	
Material thickness – cover mm		1.25	1.25	1.25	1.25	1.25	
Model No.	1 pc(s).	1560.000	1564.000	1561.000	1562.000	1565.000	
Weight, approx. kg		1.3	1.6	1.8	1.8	2.2	
Mini cam lock		4	4	4	4	4	

Accessories

Wall mounting bracket, for AX stainless steel, KX stainless steel	4 pc(s).	1594.010	1594.010	1594.010	1594.010	1594.010	73
Wall angle	4 pc(s).	–	–	2583.010	2583.010	2583.010	75
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	131
Mounting plates	1 pc(s).	1560.800	1560.800	1561.800	1562.800	1562.800	132
Support rails TS 35/7.5	10 pc(s).	2314.000	2314.000	2316.000	2315.000	2315.000	132
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2365.000	2366.000	2365.000	2365.000	2366.000	80
Mounting claw for second mounting level	20 pc(s).	2309.100	2309.100	2309.100	2309.100	2309.100	133
Cover retainer	6 pc(s).	1591.100	1591.100	1591.100	1591.100	1591.100	128
Cover hinge, stainless steel	2 pc(s).	1592.210	1592.210	1592.210	1592.210	1592.210	128
Earth straps	5 pc(s).	2565.100	2565.050	2565.100	2565.100	2565.050	133
Baying kit	1 pc(s).	–	1199.100	–	–	1199.100	126
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	2487.000	81

Small enclosures KX

Terminal boxes KX, stainless steel, without gland plate

Width mm	Packs of	300	300	400	300	400	Page
Height mm		200	200	200	300	300	
Depth mm		80	120	120	120	120	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	1.25	
Material thickness – cover mm		1.25	1.25	1.25	1.25	1.25	
Model No.	1 pc(s).	1563.000	1566.000	1568.000	1567.000	1569.000	
Weight, approx. kg		2.4	2.9	3.6	3.9	4.6	
Mini cam lock		4	4	4	4	4	
Accessories							
Wall mounting bracket, for AX stainless steel, KX stainless steel	4 pc(s).	1594.010	1594.010	1594.010	1594.010	1594.010	73
Wall angle	4 pc(s).	2583.010	2583.010	2583.010	2583.010	2583.010	75
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	131
Mounting plates	1 pc(s).	1563.800	1563.800	1564.800	1567.800	1568.800	132
Support rails TS 35/7.5	10 pc(s).	2316.000	2316.000	2317.000	2316.000	2317.000	132
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2365.000	2366.000	2366.000	2366.000	2366.000	80
Mounting claw for second mounting level	20 pc(s).	2309.100	2309.100	2309.100	2309.100	2309.100	133
Cover retainer	6 pc(s).	1591.100	1591.100	1591.100	1591.100	1591.100	128
Cover hinge, stainless steel	2 pc(s).	1592.210	1592.210	1592.210	1592.210	1592.210	128
Earth straps	5 pc(s).	2565.100	2565.050	2565.050	2565.050	2565.050	133
Baying kit	1 pc(s).	–	1199.100	1199.100	1199.100	1199.100	126
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	2487.000	81



AX. KX. SYSTEM PERFECTION.

Wall mounting bracket



ENCLOSURES

POWER DISTRIBUTION

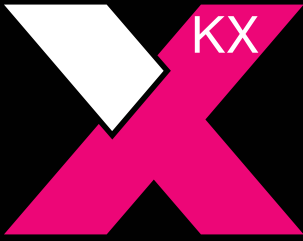
CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES



FRIEDHELM LOH GROUP



E-BOX KX – MORE **TIME SAVED**

Simplified machining boosts efficiency, thanks to the door being supplied loose and tool-free cam lock installation.





Ample space

The 180° door hinges create more space and improve access to the enclosure interior.



Peace of mind

The cam lock with double-bit insert can be installed without using tools, locks the enclosure securely and can be incorporated into custom locking systems.



Reliability

The folded edge of the enclosure has a deliberately flat design that offers a generous and secure bearing surface for the seamless PU foam gasket and thus helps maintain protection category IP 66.





Speed

The mounting plate and door can be removed from the packaging and passed straight on for machining.



Easy assembly

Thanks to the series-standard eyelet in the rear panel, the wall mounting bracket can be quickly screwed into place from the outside using a self-tapping screw – without a lock nut on the inside. The high protection category is maintained without any restrictions.



Protection category maintained

The seamless PU foam gasket makes it possible to maintain the protection category within a temperature range of -20 °C to $+80\text{ °C}$ and can be over-painted if necessary.



Earthing

The PE conductor connection enables extremely quick and easy earthing, even retrospectively.

Small enclosures KX

E-Box KX, sheet steel



System accessories Page 126 **E-Box KX, stainless steel** Page 115

Material:

- Enclosure: Sheet steel
- Door: Sheet steel, all-round foamed-in PU seal

Surface finish:

- Enclosure and door: Dipcoat-primed, powder-coated on the outside, textured paint
- Mounting plate: Zinc-plated

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 4

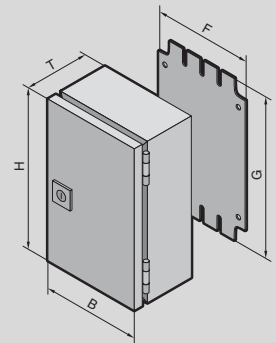
Supply includes:

- Enclosure with door
- Mounting plate
- Cam lock with 3 mm double-bit insert

Approvals:

- UL
- cUL
- CSA

Further approvals can be found on the Internet.



Small enclosures KX

E-Box KX, sheet steel, depth 80 mm

Width (B) mm	Packs of	150	150	200	200	200	Page
Height (H) mm		150	300	200	300	400	
Depth (T) mm		80	80	80	80	80	
Mounting plate width (F) mm		125	125	175	175	175	
Mounting plate height (G) mm		135	285	185	285	385	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	1.25	
Material thickness – door mm		1.25	1.25	1.25	1.25	1.25	
Material thickness – mounting plate mm		2.0	2.0	2.0	2.0	2.0	
Model No.	1 pc(s).	1551.000	1545.000	1546.000	1552.000	1547.000	
Weight, approx. kg		1.7	2.6	2.4	3.2	4.4	

Accessories

Wall mounting bracket, for AX sheet steel, KX sheet steel	4 pc(s).	1590.010	1590.010	1590.010	1590.010	1590.010	129
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	131
Support rails TS 35/7.5	10 pc(s).	2314.000	2314.000	2315.000	2315.000	2315.000	132
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2365.000	2365.000	2365.000	2365.000	2365.000	80
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2537.100	2537.100	2537.100	127
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	2537.200	2537.200	2537.200	2537.200	127
Mini-comfort handle AX for padlocks and lock inserts or semi-cylinders	1 pc(s).	2537.300	2537.300	2537.300	2537.300	2537.300	127
Lock insert 7 mm square	1 pc(s).	2460.000	2460.000	2460.000	2460.000	2460.000	67
Lock insert 8 mm square	1 pc(s).	2461.000	2461.000	2461.000	2461.000	2461.000	67
Lock insert 7 mm triangular	1 pc(s).	2462.000	2462.000	2462.000	2462.000	2462.000	67
Lock insert 8 mm triangular	1 pc(s).	2463.000	2463.000	2463.000	2463.000	2463.000	67
Lock insert, screwdriver	1 pc(s).	2464.000	2464.000	2464.000	2464.000	2464.000	67
Lock insert Daimler	1 pc(s).	2465.000	2465.000	2465.000	2465.000	2465.000	67
Lock insert 3 mm double-bit	1 pc(s).	2466.000	2466.000	2466.000	2466.000	2466.000	67
Lock insert Fiat	1 pc(s).	2307.000	2307.000	2307.000	2307.000	2307.000	67
Lock insert 6.5 mm triangular	1 pc(s).	2460.650	2460.650	2460.650	2460.650	2460.650	67
Earth straps	5 pc(s).	2565.100	2565.100	2565.100	2565.100	2565.100	133
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	2487.000	81
Connector gland	5 pc(s).	2400.500	2400.500	2400.500	2400.500	2400.500	134



Small enclosures KX

E-Box KX, sheet steel, depth 120 mm

Width (B) mm	Packs of	150	150	200	200	200	200	300	300	Page
Height (H) mm		150	300	200	300	400	500	300	400	
Depth (T) mm		120	120	120	120	120	120	120	120	
Mounting plate width (F) mm		125	125	175	175	175	175	275	275	
Mounting plate height (G) mm		135	285	185	285	385	485	285	385	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	
Material thickness – door mm		1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	
Material thickness – mounting plate mm		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Model No.	1 pc(s).	1553.000	1548.000	1549.000	1554.000	1550.000	1557.000	1555.000	1556.000	
Weight, approx. kg		2.0	3.0	2.8	3.6	5.0	6.2	5.0	6.4	
Accessories										
Wall mounting bracket, for AX sheet steel, KX sheet steel	4 pc(s).	1590.010	1590.010	1590.010	1590.010	1590.010	1590.010	1590.010	1590.010	129
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	131
Support rails TS 35/7.5	10 pc(s).	2314.000	2314.000	2315.000	2315.000	2315.000	2315.000	2316.000	2316.000	132
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2366.000	2366.000	2366.000	2366.000	2366.000	2366.000	2366.000	2366.000	80
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2537.100	2537.100	2537.100	2537.100	2537.100	2537.100	127
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	2537.200	2537.200	2537.200	2537.200	2537.200	2537.200	2537.200	127
Mini-comfort handle AX for padlocks and lock inserts or semi-cylinders	1 pc(s).	2537.300	2537.300	2537.300	2537.300	2537.300	2537.300	2537.300	2537.300	127
Lock insert 7 mm square	1 pc(s).	2460.000	2460.000	2460.000	2460.000	2460.000	2460.000	2460.000	2460.000	67
Lock insert 8 mm square	1 pc(s).	2461.000	2461.000	2461.000	2461.000	2461.000	2461.000	2461.000	2461.000	67
Lock insert 7 mm triangular	1 pc(s).	2462.000	2462.000	2462.000	2462.000	2462.000	2462.000	2462.000	2462.000	67
Lock insert 8 mm triangular	1 pc(s).	2463.000	2463.000	2463.000	2463.000	2463.000	2463.000	2463.000	2463.000	67
Lock insert, screwdriver	1 pc(s).	2464.000	2464.000	2464.000	2464.000	2464.000	2464.000	2464.000	2464.000	67
Lock insert Daimler	1 pc(s).	2465.000	2465.000	2465.000	2465.000	2465.000	2465.000	2465.000	2465.000	67
Lock insert 3 mm double-bit	1 pc(s).	2466.000	2466.000	2466.000	2466.000	2466.000	2466.000	2466.000	2466.000	67
Lock insert Fiat	1 pc(s).	2307.000	2307.000	2307.000	2307.000	2307.000	2307.000	2307.000	2307.000	67
Lock insert 6.5 mm triangular	1 pc(s).	2460.650	2460.650	2460.650	2460.650	2460.650	2460.650	2460.650	2460.650	67
Earth straps	5 pc(s).	2565.050	2565.050	2565.050	2565.050	2565.050	2565.050	2565.050	2565.050	133
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	126
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	2459.000	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	2487.000	2487.000	2487.000	2487.000	81
Connector gland	5 pc(s).	2400.500	2400.500	2400.500	2400.500	2400.500	2400.500	2400.500	2400.500	134



Rittal – The System.

Wall mounting bracket

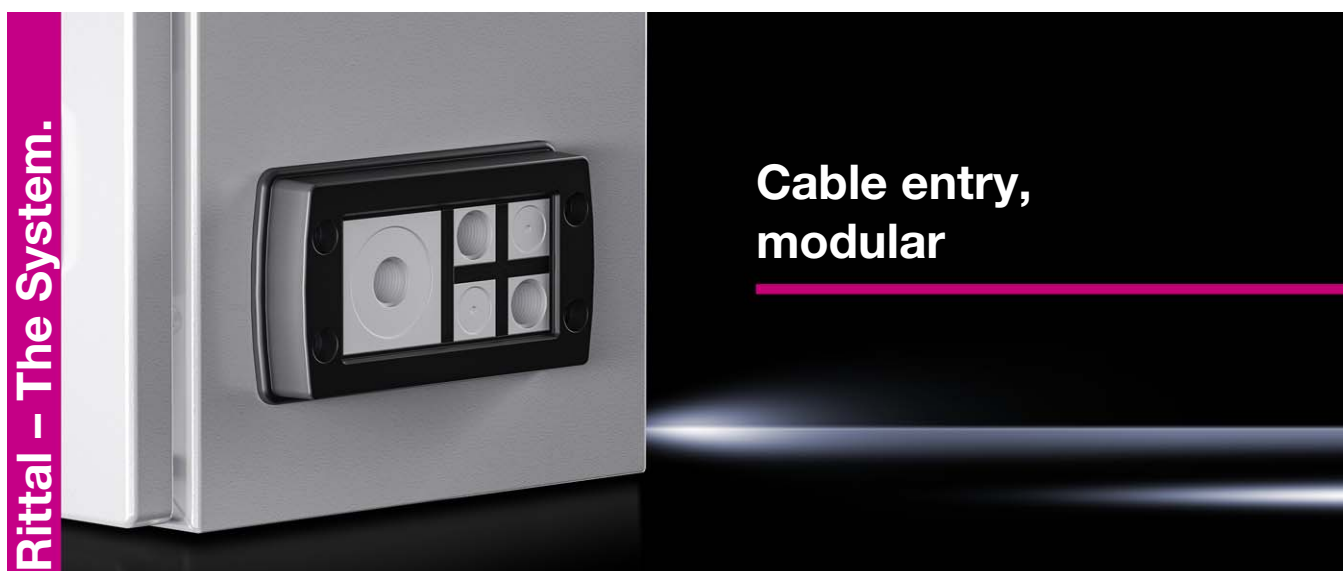
E-Box KX, sheet steel, depth 155 mm

Width (B) mm	Packs of	200	300	300	300	300	380	Page
Height (H) mm		300	300	400	600	800	300	
Depth (T) mm		155	155	155	155	155	155	
Mounting plate width (F) mm		175	275	275	275	275	365	
Mounting plate height (G) mm		285	285	385	585	785	275	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	1.25	1.25	
Material thickness – door mm		1.25	1.25	1.25	1.25	1.25	1.25	
Material thickness – mounting plate mm		2.0	2.0	2.0	2.0	2.0	2.0	
Model No.	1 pc(s).	1574.000	1575.000	1577.000	1578.000	1579.000	1576.000	
Weight, approx. kg		4.5	6.1	7.1	11.0	13.2	7.5	

Accessories

Wall mounting bracket, for AX sheet steel, KX sheet steel	4 pc(s).	1590.010	1590.010	1590.010	1590.010	1590.010	1590.010	129
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	2584.100	2584.100	131
Support rails TS 35/7.5	10 pc(s).	2315.000	2316.000	2316.000	2316.000	2316.000	2317.000 ¹⁾	132
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2366.000	2366.000	2366.000	2366.000	2366.000	2366.000	80
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2537.100	2537.100	2537.100	2537.100	127
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	2537.200	2537.200	2537.200	2537.200	2537.200	127
Mini-comfort handle AX for padlocks and lock inserts or semi-cylinders	1 pc(s).	2537.300	2537.300	2537.300	2537.300	2537.300	2537.300	127
Lock insert 7 mm square	1 pc(s).	2460.000	2460.000	2460.000	2460.000	2460.000	2460.000	67
Lock insert 8 mm square	1 pc(s).	2461.000	2461.000	2461.000	2461.000	2461.000	2461.000	67
Lock insert 7 mm triangular	1 pc(s).	2462.000	2462.000	2462.000	2462.000	2462.000	2462.000	67
Lock insert 8 mm triangular	1 pc(s).	2463.000	2463.000	2463.000	2463.000	2463.000	2463.000	67
Lock insert, screwdriver	1 pc(s).	2464.000	2464.000	2464.000	2464.000	2464.000	2464.000	67
Lock insert Daimler	1 pc(s).	2465.000	2465.000	2465.000	2465.000	2465.000	2465.000	67
Lock insert 3 mm double-bit	1 pc(s).	2466.000	2466.000	2466.000	2466.000	2466.000	2466.000	67
Lock insert Fiat	1 pc(s).	2307.000	2307.000	2307.000	2307.000	2307.000	2307.000	67
Lock insert 6.5 mm triangular	1 pc(s).	2460.650	2460.650	2460.650	2460.650	2460.650	2460.650	67
Earth straps	5 pc(s).	2565.050	2565.050	2565.050	2565.050	2565.050	2565.050	133
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	126
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	2487.000	2487.000	81
Connector gland	5 pc(s).	2400.500	2400.500	2400.500	2400.500	2400.500	2400.500	134

¹⁾ Must be cut to length accordingly



**Cable entry,
modular**

Small enclosures KX

E-Box KX, stainless steel



System accessories Page 126 E-Box KX, sheet steel Page 111

Material:

- Enclosure: Stainless steel
- Door: Stainless steel, all-round foamed-in PU seal
- Mounting plate: Sheet steel

Surface finish:

- Enclosure and door: Brushed, grain size 400
- Mounting plate: Zinc-plated

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 4X

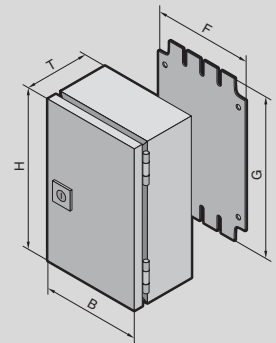
Supply includes:

- Enclosure with door
- Mounting plate
- Cam lock with 3 mm double-bit insert

Approvals:

- UL
- cUL
- CSA

Further approvals can be found on the Internet.



E-Box KX, stainless steel, depth 120/155 mm

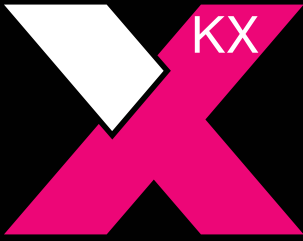
Width (B) mm	Packs of	200	200	200	380	Page
Height (H) mm		300	300	300	300	
Depth (T) mm		120	155	155	155	
Mounting plate width (F) mm		175	175	175	365	
Mounting plate height (G) mm		285	285	285	275	
Material	Stainless steel 1.4301 (AISI 304)	■	■	–	■	
	Stainless steel 1.4404 (AISI 316L)	–	–	■	–	
Material thickness – enclosure mm		1.25	1.25	1.5	1.25	
Material thickness – door mm		1.25	1.25	1.5	1.25	
Model No.	1 pc(s).	1584.000	1587.000	1301.000	1588.000	
Weight, approx. kg		3.6	4.1	4.1	7.5	
Accessories						
Wall mounting bracket, for AX stainless steel, KX stainless steel	4 pc(s).	1594.010	1594.010	1594.010	1594.010	129
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	131
Support rails TS 35/7.5	10 pc(s).	2315.000	2315.000	2315.000	2317.000 ¹⁾	132
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2366.000	2366.000	2366.000	2366.000	80
Mini-comfort handle AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2537.100	2537.100	127
Mini-comfort handle AX with security lock insert, lock E1	1 pc(s).	2537.200	2537.200	2537.200	2537.200	127
Mini-comfort handle AX for padlocks and lock inserts or semi-cylinders	1 pc(s).	2537.300	2537.300	2537.300	2537.300	127
Cam lock AX with double-bit insert, stainless steel 1.4404 (AISI 316L)	1 pc(s).	2309.110	2309.110	2309.110	2309.110	127
Lock insert 7 mm square	1 pc(s).	2460.000	2460.000	2460.000	2460.000	67
Lock insert 8 mm square	1 pc(s).	2461.000	2461.000	2461.000	2461.000	67
Lock insert 7 mm triangular	1 pc(s).	2462.000	2462.000	2462.000	2462.000	67
Lock insert 8 mm triangular	1 pc(s).	2463.000	2463.000	2463.000	2463.000	67
Lock insert, screwdriver	1 pc(s).	2464.000	2464.000	2464.000	2464.000	67
Lock insert Daimler	1 pc(s).	2465.000	2465.000	2465.000	2465.000	67
Lock insert 3 mm double-bit	1 pc(s).	2466.000	2466.000	2466.000	2466.000	67
Lock insert Fiat	1 pc(s).	2307.000	2307.000	2307.000	2307.000	67
Lock insert 6.5 mm triangular	1 pc(s).	2460.650	2460.650	2460.650	2460.650	67
Earth straps	5 pc(s).	2565.050	2565.050	2565.050	2565.050	133
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	81

¹⁾ Must be cut to length accordingly

Rittal – The System.



Rittal Configuration System



BUS ENCLOSURES KX – MORE OF AN **OVERVIEW**

A lid that incorporates a viewing window and opens up to an angle of 180° provides easier access and a better overview of all control components.







Access

The wide door opening angle of up to 180° creates sufficient space to install modules with ease and replace them quickly. The large viewing window makes it easy to continuously monitor the components inside the enclosure.



Precision

The quick-release fastener works almost instantaneously. Even when locking, just a quarter of a turn is sufficient to correctly centre and completely seal the lid.



Reliability

The folded edge of the enclosure has a deliberately flat design that offers a generous and secure bearing surface for the seamless PU foam gasket and thus helps maintain protection category IP 66.



Flexibility

Enclosures can be fitted with support rails or mounting plates as required.



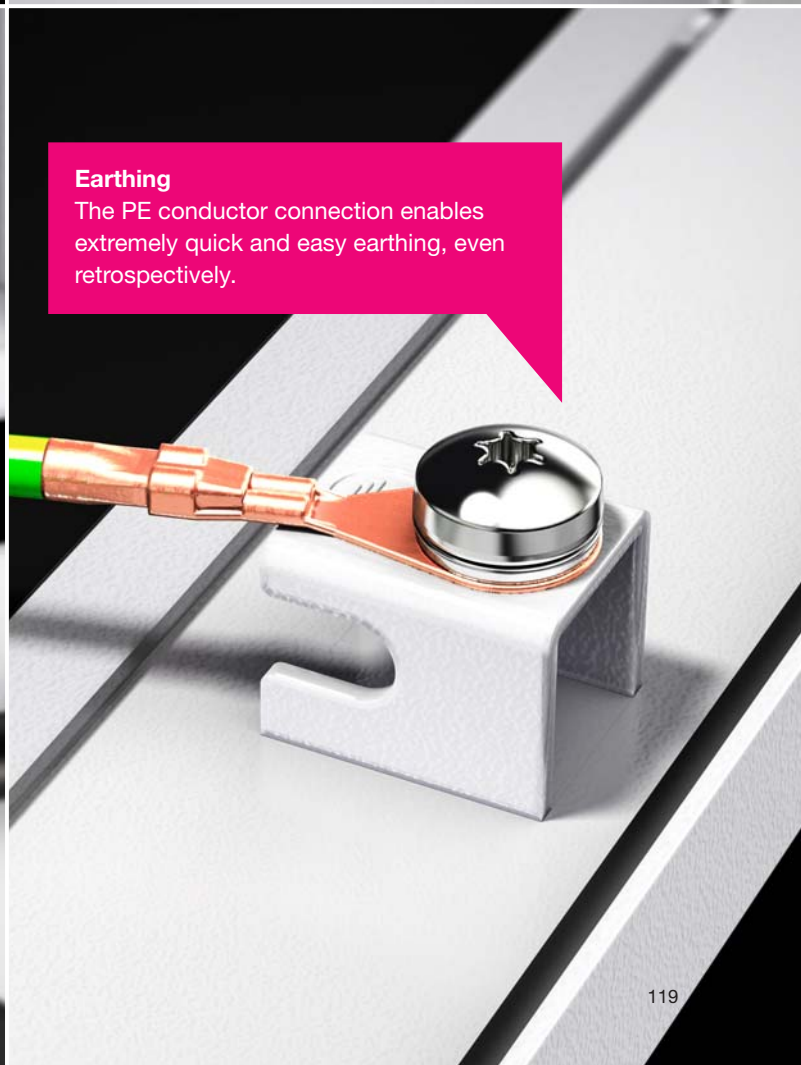
Easy assembly

Thanks to the series-standard eyelet in the rear panel, the wall mounting bracket can be quickly screwed into place from the outside using a self-tapping screw – without a lock nut on the inside. The high protection category is maintained without any restrictions.



Protection category maintained

The seamless PU foam gasket makes it possible to maintain the protection category within a temperature range of -20 °C to +80 °C and can be over-painted if necessary.



Earthing

The PE conductor connection enables extremely quick and easy earthing, even retrospectively.

Small enclosures KX

Bus enclosures KX, sheet steel



System accessories Page 126 **Bus enclosures KX, stainless steel** Page 121

Material:

- Enclosure: Sheet steel
- Cover: Sheet steel, all-round foamed-in PU seal
- Viewing window: Polycarbonate, 4 mm

Surface finish:

- Enclosure and cover: Dipcoat-primed, powder-coated on the outside, textured paint

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 65

Protection category NEMA:

- NEMA 12

Supply includes:

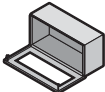
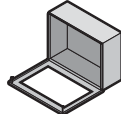
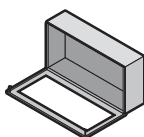
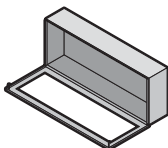
- Enclosure with hinged lid
- Viewing window in cover
- Mini cam lock

Approvals:

- UL
- cUL
- CSA

Further approvals can be found on the Internet.

Bus enclosures KX, sheet steel

						
Width mm	Packs of	400	400	600	800	Page
Height mm		200	300	300	300	
Depth mm		155	155	155	155	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	
Material thickness – cover mm		1.25	1.25	1.25	1.25	
Model No.	1 pc(s).	1610.000	1611.000	1612.000	1613.000	
Weight, approx. kg		6.0	7.0	9.5	13.1	
Accessories						
Wall mounting bracket, for AX sheet steel, KX sheet steel	4 pc(s).	1590.010	1590.010	1590.010	1590.010	129
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	2584.100	131
Mounting plates	1 pc(s).	1564.800	1568.800	1570.800	1570.810	132
Support rails TS 35/7.5	10 pc(s).	2315.000	2316.000	2316.000	2316.000	132
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2366.000	2366.000	2366.000	2366.000	80
Mounting claw for second mounting level	20 pc(s).	2309.100	2309.100	2309.100	2309.100	133
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	2459.000	126
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	126
Earth straps	5 pc(s).	2565.050	2565.050	2565.050	2565.050	133
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	2487.000	81
Connector gland	5 pc(s).	2400.500	2400.500	2400.500	2400.500	134

Small enclosures KX

Bus enclosures KX, stainless steel



System accessories Page 126 Bus enclosures KX, sheet steel Page 120

Material:

- Enclosure: Stainless steel 1.4301 (AISI 304)
- Cover: Stainless steel 1.4301 (AISI 304), all-round foamed-in PU seal
- Hinges: Die-cast zinc

Surface finish:

- Enclosure and cover: Brushed, grain size 400

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 4X

Supply includes:


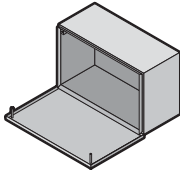
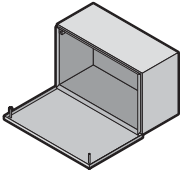
- Enclosure with hinged lid
- Mini cam lock

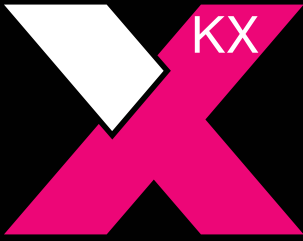
Approvals:

- UL
- cUL
- CSA

Further approvals can be found on the Internet.

Bus enclosures KX, stainless steel

					
Width mm	Packs of	200	400	600	Page
Height mm		300	200	200	
Depth mm		80	120	120	
Material thickness – enclosure mm		1.25	1.25	1.25	
Material thickness – cover mm		1.25	1.25	1.25	
Model No.	1 pc(s).	1583.000	1585.000	1586.000	
Weight, approx. kg		2.8	4.5	6.0	
Accessories					
Wall mounting bracket, for AX stainless steel, KX stainless steel	4 pc(s).	1594.010	1594.010	1594.010	129
Wall angle	4 pc(s).	–	–	2583.010	75
Pole clamp	2 pc(s).	2584.100	2584.100	2584.100	131
Mounting plates	1 pc(s).	1563.800	1564.800	1566.800	132
Support rails TS 35/7.5	10 pc(s).	2315.000	2317.000	–	132
Support rails TS 35/15	10 pc(s).	–	–	2319.000	132
Mounting clip for support rails	30 pc(s).	2309.000	2309.000	2309.000	133
Mounting bracket	4 pc(s).	4597.000	4597.000	4597.000	79
Rail mounting bracket	20 pc(s).	2365.000	2366.000	2366.000	80
Mounting claw for second mounting level	20 pc(s).	2309.100	2309.100	2309.100	133
Earth straps	5 pc(s).	2565.100	2565.050	2565.050	133
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	126
Pressure relief stoppers	5 pc(s).	2459.500	2459.500	2459.500	126
Condensate discharge	6 pc(s).	2459.000	2459.000	2459.000	126
Self-tapping screws	300 pc(s).	2487.000	2487.000	2487.000	81



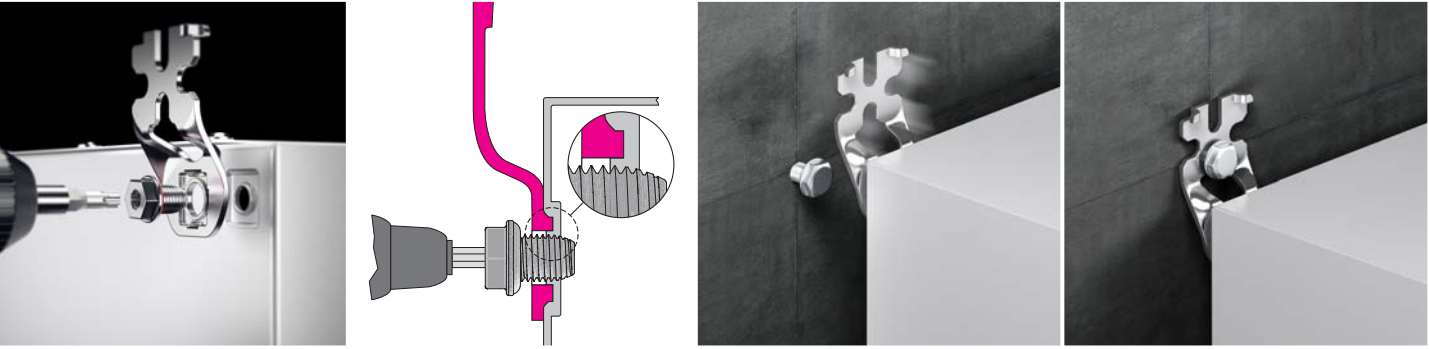
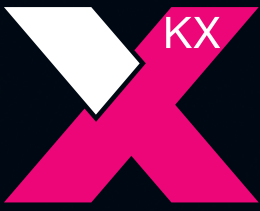
ACCESSORIES KX – MORE **POSSIBILITIES**

Accessory components that are perfectly coordinated with the enclosures offer more possibilities and significant savings.

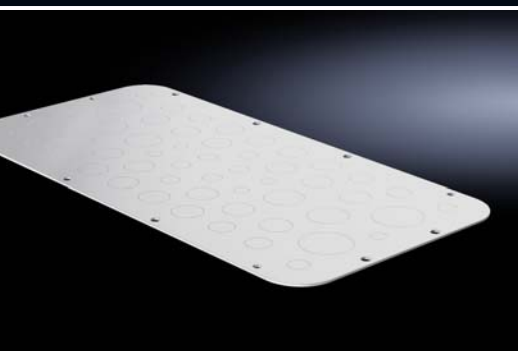
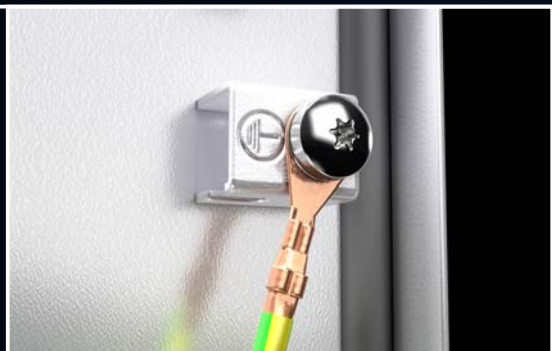




System configuration



Pole clamp
The universal pole clamp makes it very easy to fasten enclosures to round or square poles without any machining.



Gland plates
Metal gland plates with metric knockouts enable quick and easy assembly of cable glands with integrated strain relief.



Wall mounting bracket, sheet steel

The new wall mounting bracket allows instant anti-twist fixing in four different positions. All sheet steel enclosures support fastening from the outside with just one self-tapping screw. The enclosure's protection category is maintained in full.

Mounting plates and support rails

There's a perfect installation option for every application – whether configuring outside the enclosure or quickly snap-mounting equipment directly in the enclosure, even if utilising the entire enclosure depth.

Earth straps

Pre-assembled earth straps of the ideal length are available in all standard cross-sections for reliable earthing. This saves a great deal of time during installation.

Cable glands

Depending on the application in question, cable glands are available in brass with nickel plating, in polyamide or as an EMC version. Integrated clamping membranes ensure reliable tightening and strain relief to protect the cables.



System accessories KX

Base/Baying



Pressure relief stopper

Especially when enclosures are exposed to changing climatic conditions, pressure differences may cause condensation to form in sealed enclosures. The integral sealing membrane in the pressure relief stopper largely prevents such pressure differences and hence eliminates condensation; additionally, it also prevents the ingress of moisture from the outside. Installed in vertical surfaces to protect against dirt.

Technical specifications:

- Air permeability up to 120 litres/hour with a pressure difference of 70 mbar
- Connection thread M12 x 1.5
- For fitting in wall thicknesses up to 4 mm

Packs of	Model No.
5 pc(s).	2459.500

Material:

- Polyamide

Colour:

- Similar to RAL 9005

Protection category IP to IEC 60 529:

- IP 68

Protection category IP to DIN 40 040-9:

- IP 69K

Supply includes:

- Lock nut



Condensate discharge

For reliable condensate discharge from the inside and protection against splashed water from the outside (labyrinth effect). A hole diameter of 16 mm is required (with AX sheet steel, the holes are already provided in the base).

Material:

- Polyamide

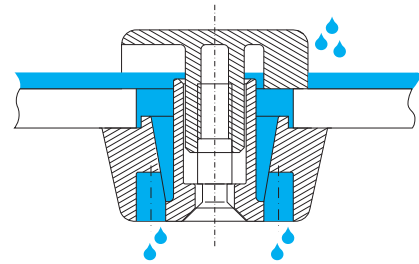
Colour:

- Similar to RAL 7035

Protection category:

- Protection from splashed water, when correctly installed at the bottom

Packs of	Model No.
6 pc(s).	2459.000



Baying kit

for AX, KX

For baying AX/KX enclosures. The required cut-outs should be provided by the customer.

Special screws and nuts

- For fast, simple assembly without thread-tapping
- Compression of the seal is limited to a predefined level, to ensure a long-lasting, permanent seal between enclosures

Seal, self-adhesive

- Comprised of bayable sealing elements and corner pieces, for individual adaptation to various enclosure sizes

One pack is sufficient for a baying joint up to H x D = 800 x 350 mm.

Packs of	Model No.
1 pc(s).	1199.100

Supply includes:

- Special screws and nuts
- Sealing elements, self-adhesive



Mini-comfort handle AX

for AX with cam lock, KX with cam lock

Prepared for the installation of lock inserts or for the installation of standard commercially available 40 or 45 mm semi-cylinders, as well as lock and push-button inserts. The lock is opened by swivelling the unlocked handle.

			
	For lock inserts or semi-cylinders	With security lock insert E1 ¹⁾	For padlocks and lock inserts or semi-cylinders
	Model No.		
	2537.100	2537.200	2537.300
Lock inserts, type A			
7 mm square	2460.000	–	2460.000
8 mm square	2461.000	–	2461.000
7 mm triangular	2462.000	–	2462.000
8 mm triangular	2463.000	–	2463.000
Screwdriver	2464.000	–	2464.000
Daimler insert	2465.000	–	2465.000
3 mm double-bit	2466.000	–	2466.000
Fiat	2307.000	–	2307.000
6.5 mm triangular	2460.650	–	2460.650
Lock and push-button inserts			
Lock insert, lock no. 3524 E ²⁾	2467.000	–	2467.000
Push-button insert	2468.000	–	2468.000
Push-button and lock insert ²⁾	2469.000 ³⁾	–	2469.000 ³⁾
Semi-cylinders			
To DIN 18 252 ⁴⁾	9785.040	–	9785.040
	9785.042 ⁵⁾	–	9785.042 ⁵⁾

¹⁾ Only for use with VW, Audi, SEAT, Skoda Auto, supplied without key

²⁾ With two keys

³⁾ Lock no. 2123; no other lock is possible

⁴⁾ With 3 keys for each lock insert

⁵⁾ Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs



Cam lock, stainless steel

for AX, KX E-Box

With double-bit insert

Material:

– Made entirely from stainless steel 1.4404 (AISI 316L)

For	Packs of	Model No.
AX	1 pc(s).	2304.100
KX E-Box	1 pc(s).	2309.110



System accessories KX

Lock system



Cover hinge

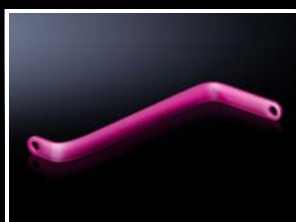
for terminal boxes KX

The cover hinge is simply screw-fastened to the enclosure protection channel and to the edge fold. The position of the installation holes is prepunched, so no need to measure and mark out.

Supply includes:

- Cover hinge
- Stoppers
- Assembly parts

Material	Packs of	Model No.
Die-cast zinc	6 pc(s).	1592.200
Stainless steel 1.4404 (AISI 316L)	2 pc(s).	1592.210



Cover retainer

for terminal boxes KX

The cover retainer is easily fitted without drilling, and allows the cover to be opened and secured without putting strain on the earthing strap.

Colour:

- Rittal Power Pink

Packs of	Model No.
6 pc(s).	1591.100



System accessories KX

Roof/wall mounting

Dust guard trim

for AX, KX

To protect against deposits on the upper edge of the door and between the enclosure and the door/cover. Cut the dust guard trim to length according to the enclosure width. Drill the enclosure and fit the dust guard trim using the adhesive strips and screws.

Material:

– Plastic, UV-resistant

Colour:

– Similar to RAL 7024

Length mm	Model No.
1200	2426.500



Wall mounting bracket

for AX sheet steel, KX sheet steel

For the attachment of AX and KX sheet steel enclosures.

Benefits:

- Screw-fastened directly from the rear with a self-tapping screw in the enclosure eyelet
- As an alternative to the self-tapping screw, the support may also be secured from the inside using a screw and nut

Supply includes:

– Assembly parts

Material	Wall distance mm	Packs of	Model No.
Sheet steel, zinc-plated	8	4 pc(s).	1590.010



Wall mounting bracket

for AX stainless steel, KX stainless steel

For the attachment of AX and KX stainless steel enclosures.

Supply includes:

– Assembly parts

Note:

– For hygiene reasons, and in view of the protection category, the stainless steel enclosures do not have any drilled holes for the wall mounting bracket.

Material	Wall distance mm	Packs of	Model No.
Stainless steel 1.4301 (AISI 304)	8	4 pc(s).	1594.010



System accessories KX

Roof/wall mounting



Wall mounting bracket

for AX sheet steel, KX sheet steel

Ideal for convenient one-person assembly and fully concealed installation of wall-mounted enclosures, even in confined spaces.

Benefits:

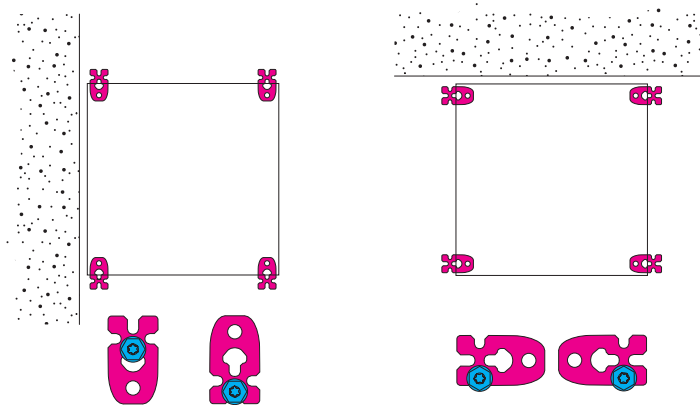
- Screw-fastened directly from the rear with a self-tapping screw in the enclosure eyelet
- Simply suspend the wall-mounted bracket from a screw in the wall
- The four different mounting positions allow the wall mounting bracket to be tailored to local conditions on site
- As an alternative to the self-tapping screw, the support may also be secured from the inside using a screw and nut
- If necessary, the support may be finished with a stylish cover cap

Supply includes:

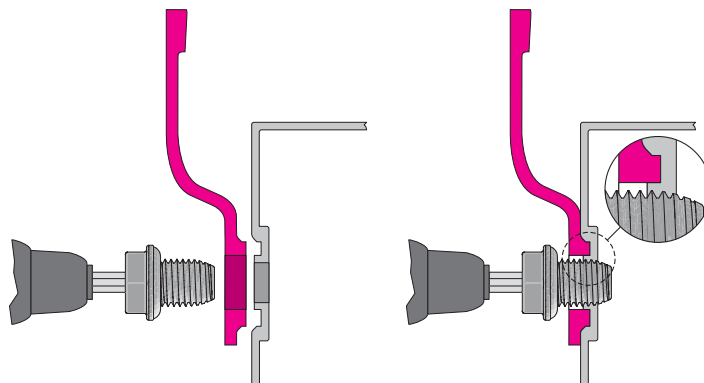
- Wall mounting bracket
- Cover cap
- Assembly parts

Material	Wall distance mm	Packs of	Model No.
Sheet steel, zinc-plated	15	4 pc(s).	2508.020
	40	4 pc(s).	2503.020

Sample applications



Attachment with self-tapping screw



System accessories KX

Roof/wall mounting

Wall mounting bracket

for AX stainless steel, KX stainless steel

For the attachment of AX and KX stainless steel enclosures.

Benefits:

- Simply suspend the wall-mounted bracket from a screw in the wall
- The four different mounting positions allow the wall mounting bracket to be tailored to local conditions on site
- If necessary, the support may be finished with a stylish cover cap

Supply includes:

- Wall mounting bracket
- Cover cap
- Assembly parts

Note:

- For hygiene reasons, and in view of the protection category, the stainless steel enclosures do not have any drilled holes for the wall mounting brackets

Material	Wall distance mm	Packs of	Model No.
Stainless steel 1.4301 (AISI 304)	15	4 pc(s).	2433.010
Stainless steel 1.4404 (AISI 316L)	15	4 pc(s).	2433.510



Pole clamp

for AX, KX

For reliable, convenient fastening to round or square poles.

For pole diameter / size:

- Ø from 40 to 170 mm
- □ from 50 to 150 mm

Material:

- Mounting angles, clamping section: Sheet steel
- Clamping strap: Stainless steel 1.4301 (AISI 304)

Surface finish:

- Mounting angle, clamping section: Zinc-plated

Supply includes:

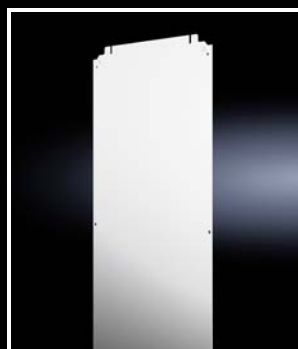
- 2 mounting angles, 600 mm long
- 4 clamping sections
- 2 clamping straps
- 4 clamping brackets
- 4 self-tapping M10 bolts for mounting onto the enclosure

Packs of	Model No.
2 pc(s).	2584.100



System accessories KX

Interior installation



Mounting plates

for terminal boxes KX, bus enclosures KX

For component installation outside of the enclosure. Assembly screws included as accessories with the enclosure.

Material:

- Sheet steel, 2 mm

Surface finish:

- Zinc-plated



Accessories:

- Self-tapping screws 2487.000, see page 81



Possible alternative:

- Support rails, see page 132

For size mm	For Model No.	Model No.
150 x 150	1500.000, 1514.000, 1560.000, 1564.000	1560.800
200 x 150	1528.000, 1529.000	1575.800
300 x 150	1501.000, 1515.000, 1530.000, 1561.000	1561.800
400 x 150	1589.000	1576.800
200 x 200	1502.000, 1516.000, 1562.000, 1565.000	1562.800
300 x 200	1503.000, 1517.000, 1531.000, 1563.000, 1566.000	1563.800
400 x 200	1504.000, 1518.000, 1532.000, 1568.000, 1585.000, 1610.000	1564.800
500 x 200	1505.000, 1533.000	1565.800
600 x 200	1506.000, 1586.000	1566.800
800 x 200	1527.000	1574.800
300 x 300	1507.000, 1535.000, 1567.000	1567.800
400 x 300	1508.000, 1536.000, 1569.000, 1611.000	1568.800
500 x 300	1509.000, 1537.000	1569.800
600 x 300	1510.000, 1538.000, 1612.000	1570.800
800 x 300	1613.000	1570.810
400 x 400	1511.000, 1539.000	1571.800
600 x 400	1512.000, 1540.000	1572.800
800 x 400	1513.000, 1541.000	1573.800



Support rails TS 35/7.5 and TS 35/15

to EN 60 715 for AX, KX

Length sized to the enclosure width.

For enclosure width mm	Support rails length mm	Version	Packs of	Model No.
150	137	TS 35/7.5	10 pc(s).	2314.000
200	187		10 pc(s).	2315.000
300	287		10 pc(s).	2316.000
400	387		10 pc(s).	2317.000
500	487	TS 35/15	10 pc(s).	2318.000
600	587		10 pc(s).	2319.000

Support rails

to EN 60 715

Fixed length: 2 m

Version	Length	Packs of	Model No.
TS 35/15	2 m	6 pc(s).	2313.150
TS 35/7.5	2 m	6 pc(s).	2313.750

System accessories KX

Interior installation

Mounting clip

for support rails

For fast, secure attachment of:

- Cable ducts
- Mounting plates
- Mounting angles

on support rail TS 35/7.5 and TS 35/15 to EN 60 715. Simply pre-assemble the mounting clip on the part to be installed, then snap into position on the support rail.

Packs of	Model No.
30 pc(s).	2309.000



Mounting claw for second mounting level

for terminal boxes KX, bus enclosures KX

For fixing top hat rails directly onto the rear panel of KX terminal boxes and KX bus enclosures. Creates an additional mounting level with an extra 10 mm of installation depth without having to machine the enclosure.

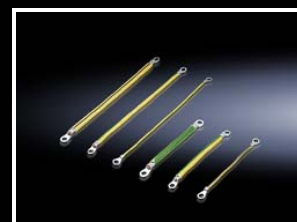
Packs of	Model No.
20 pc(s).	2309.100



Earth straps

For configuring a reliable earthing connection with perfect contact

- With ring terminals to match the earthing screws
- Length-optimised and ready to install



For KX enclosures

Connection option			Cross-section mm ²	Length mm	Packs of	Model No.
Door/cover	Enclosure	Mounting plate				
M6	M6	M6	10	200	5 pc(s).	2565.100
			10	350	5 pc(s).	2565.050

System accessories KX

Cable management



Metal gland plates

with metric knockouts, for KX

Simply knock out the holes for the cable glands using a screwdriver.

Material:

- Sheet steel

Colour:

- RAL 7035

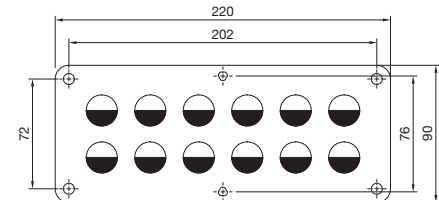
Protection category IP to IEC 60 529:

- IP 55 if installed correctly

	Diameter	Packs of	Model No.
	M20	1 pc(s).	1581.200

Accessories:

- Cable glands made from polyamide or brass, see page 135.



Connector gland, small

For pre-assembled cables with connectors.

- For use with material thickness of up to 4 mm
- Strain relief of the pre-assembled cables can be achieved with cable ties

Material:

- Plastic

Colour:

- RAL 9005

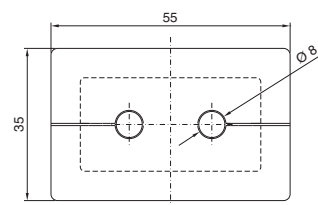
Protection category IP to IEC 60 529:

- IP 65 if installed correctly

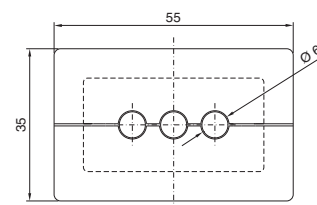
Supply includes:

- Assembly parts

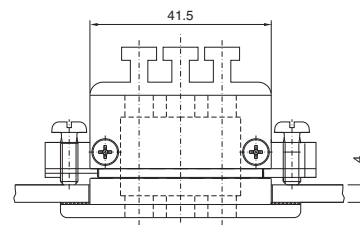
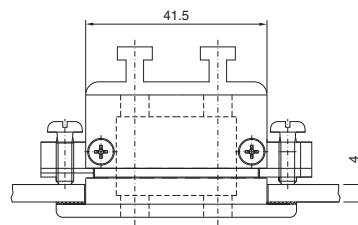
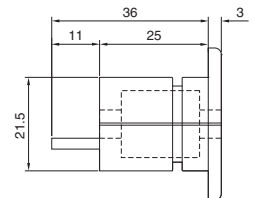
To fit	Packs of	Model No.
2 cables Ø 6 – 8 mm	1 pc(s).	2400.300
3 cables Ø 4 – 6 mm	5 pc(s).	2400.500



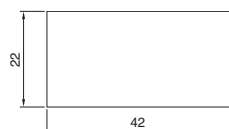
2400.300



2400.500



Mounting cut-out



System accessories KX

Cable glands

Cable gland, brass

Benefits:

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage
- Clamping membranes ensure even tightening and strain relief, which in turn protects the cables

Material:

- Brass
- Seal: TPE/NBR

Surface finish:

- Nickel-plated

Protection category IP to IEC 60 529:

- IP 68 (1 bar, 30 min.)

Approvals:

- VDE

Size	Packs of	Model No.
M12 x 1.5	15 pc(s).	2411.801
M16 x 1.5	15 pc(s).	2411.811
M20 x 1.5	10 pc(s).	2411.821
M25 x 1.5	10 pc(s).	2411.831
M32 x 1.5	5 pc(s).	2411.841
M40 x 1.5	4 pc(s).	2411.851
M50 x 1.5	2 pc(s).	2411.861
M63 x 1.5	1 pc(s).	2411.871



Cable gland, polyamide

Benefits:

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage
- Clamping membranes ensure even tightening and strain relief, which in turn protects the cables

Material:

- Polyamide 6
- Seal: Neoprene

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 68 (1 bar, 30 min.)

Approvals:

- VDE

Size	Packs of	Model No.
M12 x 1.5	50 pc(s).	2411.601
M16 x 1.5	50 pc(s).	2411.611
M20 x 1.5	50 pc(s).	2411.621
M25 x 1.5	25 pc(s).	2411.631
M32 x 1.5	15 pc(s).	2411.641
M40 x 1.5	5 pc(s).	2411.651
M50 x 1.5	5 pc(s).	2411.661
M63 x 1.5	3 pc(s).	2411.671



EMC cable gland

The cable sheathing may optionally be interrupted at the contact point or removed completely inside the enclosure. The cable shielding in the enclosure is retained. The supplied lock nut cuts automatically into the paint when screwed onto spray-finished enclosure surfaces, thus creating a conductive connection.

Protection category IP to IEC 60 529:

- IP 68

Cable glands, metric

Size	Cable diameter mm	Minimum shield diameter ¹⁾ mm	Packs of	Model No.
M16	4.5 – 10	3	5 pc(s).	2843.160
M20	6 – 12	5	5 pc(s).	2843.200
M25	11 – 17	8	5 pc(s).	2843.250
M32	15 – 21	10	1 pc(s).	2843.320
M40	19 – 28	15	1 pc(s).	2843.400
M50	27 – 38	19	1 pc(s).	2843.500
M63	34 – 44	30	1 pc(s).	2843.630

¹⁾ Minimum shield diameter = cable diameter minus cable sheathing



The 3-phase coating procedure

Coating procedure	Technical properties	Technical specifications	
Degreasing, nanoceramic pretreatment, rinsing	Used as corrosion protection and to improve paint adhesion.	Nanoceramic conversion layer	
Interior/exterior: Anodic dipcoat priming	Even layer formation on all surfaces, edges and in cavities, which produces a high level of corrosion protection even at the assembly stage. The primer is readily overpainted and free from heavy metals, chromate and silicone.	Erichsen cupping test to DIN EN ISO 1520	≥ 4 mm
		Buchholz hardness to DIN EN ISO 2815	≥ 80
		Cross cutting to DIN EN ISO 2409	Gt 0
Stove enamelling			
Exterior: Textured powder coating	Powder-coating is distinguished by a high level of mechanical resistance, excellent corrosion protection, good resistance to chemicals and temperature, and its facility for decontamination. The powder coating is readily overpainted and is free from heavy metals, chromate and silicone.	Erichsen cupping test to DIN EN ISO 1520	≥ 3.5 mm
		Buchholz hardness to DIN EN ISO 2815	≥ 80
		Cross cutting to DIN EN ISO 2409	Gt 0
		Salt spray test to DIN EN ISO 9227 NSS	Test period: 168 hrs
		Condensate test to DIN EN ISO 6270-2 CH	Test period: 500 hrs
		Condensate test to DIN EN ISO 6270-2 AHT	Test period: 20 cycles
Stove enamelling			

The coating is resistant to:

- Mineral oils
- Lubricants
- Machine emulsions
- Alcohol-based solvents (briefly, e.g. during cleaning)
- Weak acids and alkalines

Primer or powder coating suitable for overpainting

After careful cleaning of the surface, the standard coating may be overpainted with

- DD gloss paints
- Single and dual-component gloss paints
- Car repair paints
- Powder paints
- Water-based paints

If in doubt, perform a compatibility test. Always follow the paint manufacturer's instructions. When overpainting, take care not to exceed 180 °C and a baking time of 15 minutes.

Outdoor use of enclosures

In order to guarantee satisfactory long-term function of enclosures in outdoor use, the relevant environmental factors must be taken into account.

These include:

- UV radiation, the corrosive action of air pollution, rain, icing, snow, wind or other factors in special climatic conditions.

Condensation inside the enclosure

Condensation must be prevented by means of appropriate measures, e.g. by venting or heating the enclosure.

Protection category

The enclosure may be exposed to extreme weather conditions during outdoor use. Long periods of rain, snow, ice, high winds and temperature fluctuations place particularly high demands on the enclosure sealing. The protection category IP X3 as envisaged for external weather conditions in DIN VDE 0100, part 737, point 5.2 is often insufficient to provide permanent protection for electrical equipment.

Protection categories to IEC 60 529 (EN 60 529)

The IP protection category is characterised by 2 numerals.

Example of a protection category, e.g. IP 43:

Code letters	
IP	
First numeral	Second numeral
4	3

Degrees of protection for protection against contact and foreign bodies: First numeral			Degrees of protection for protection against water: Second numeral		
First numeral	Degree of protection		Second numeral	Degree of protection	
	Description	Explanation		Description	Explanation
1	Protected against solid foreign objects with a diameter of 50 mm and greater	The object probe, a sphere 50 mm in diameter, must not penetrate fully. ¹⁾	1	Protected against vertically falling water drops	Vertically falling drops shall have no harmful effects.
2	Protected against solid foreign objects with a diameter of 12.5 mm and greater	The object probe, a sphere 12.5 mm in diameter, must not penetrate fully. ¹⁾ The articulated test finger may penetrate up to its length of 80 mm, but adequate distance from hazardous parts must be adhered to.	2	Protected against vertically falling water drops when the enclosure is tilted up to 15°	Vertically falling drops shall not have any harmful effects when the enclosure is tilted up to 15° on either side of the vertical.
3	Protected against solid foreign objects with a diameter of 2.5 mm and greater	The object probe, a sphere 2.5 mm in diameter, must not penetrate at all ¹⁾ .	3	Protected against sprayed water	Water sprayed at an angle of up to 60° on either side of the vertical shall have no harmful effects.
4	Protected against solid foreign objects with a diameter of 1.0 mm and greater	The object probe, a sphere 1.0 mm in diameter, must not penetrate at all ¹⁾ .	4	Protected against splashed water	Water splashed on the enclosure from any direction shall have no harmful effects.
5	Dust-protected	The ingress of dust is not fully prevented, but dust shall not enter to such an extent as to impair satisfactory operation of the device or safety.	5	Protected against water jets	Water directed at the enclosure from any direction in a jet shall have no harmful effects.
6	Dust-tight	No ingress of dust at a partial vacuum of 20 mbar inside the enclosure.	6	Protected against powerful water jets	Water directed at the enclosure from every direction in a powerful jet shall have no harmful effects.
			7	Protected against temporary immersion in water	Water must not ingress to such an extent as to cause harmful effects when the enclosure is temporarily immersed in water under standardised pressure and time conditions.
			8	Protected against continuous immersion in water	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions to be agreed between the manufacturer and the user. However, the conditions must be more difficult than for numeral 7.
			9	Protected against high-pressure and high-temperature water jets	Water projected at high pressure and high temperature against the enclosure from any direction shall not have harmful effects.

¹⁾ The full diameter of the object probe must not pass through an opening of the enclosure.

Technical information

NEMA

The **N**ational **E**lectrical **M**anufacturers **A**ssociation (NEMA) is a standards organisation in Washington, USA, which publishes a number of technical standards but does not test or certify products itself.

The following NEMA classification outlines the protection of individuals from accidental contact with equipment and the protection of an enclosure from external factors.

Further information on protection categories may be found on the Internet at: www.rittal.com

UL/NEMA Type	Intended use and description
1	Enclosures for use predominantly indoors Protection against the penetration of foreign bodies
3	Enclosures for use predominantly outdoors Protection from rain, hail, dust, icing and the damage caused by icing
3R	Enclosures for use predominantly outdoors Protection from rain, hail, icing and the damage caused by icing
3S	Enclosures for use predominantly outdoors Protection from rain, hail and dust External mechanisms remain usable despite being coated in ice
4	Enclosures for indoor or outdoor use Protection against rain, foreign bodies, splashed water and hosed water and against damage caused by icing on the exterior of the enclosure
4X	Enclosures for indoor or outdoor use Protection against rain, foreign bodies, splashed water and hosed water and against damage caused by icing on the exterior of the enclosure Increased protection from corrosion
12, 12K	Enclosures for use predominantly indoors Protection against dust deposits, foreign bodies and non-corrosive dripping liquids
13	Enclosures for use predominantly indoors Protection against dust deposits, sprayed water, oil, and non-corrosive refrigerants

The UL/NEMA classifications are not directly comparable with IP protection categories, since both the test conditions and the evaluation of the test results are different

Approvals and permits

Product certifications and approvals are pivotal to the global acceptance of industrial products.

Rittal products meet the highest internationally recognised quality yardsticks. All components are subjected to the most stringent testing in accordance with international standards and regulations.

The consistently high product quality is ensured by a comprehensive quality management system. Regular production inspections by external test institutes also guarantee compliance with global standards

A precise allocation of products to marks of conformity can be found on our product and service pages on the Internet.

www.rittal.com

PE conductor connection

The PE conductor connection must be designed by the manufacturer of switchgear in accordance with the relevant VDE and/or local regulations.

The enclosure packs generally contain earthing materials (screws, nuts, washers). The assembly instructions contain recommendations on installing a PE conductor.

The pre-assembled earth straps, available as accessories in various cross-sections and lengths, are intended to make assembly of a PE conductor easier.

Further information can be found in our technical documentation "PE conductor connection, current carrying capacity".

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