## Rittal - The System.

Faster - better - everywhere.

# AX. KX. SYSTEM PERFECTION.

Compact and small enclosures.



## Rittal – The System.

Faster – better – everywhere.



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.

**IT INFRASTRUCTURE** 



#### 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.



FRIEDHELM LOH GROUP







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Wall-mounted enclosures AX		
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## Small enclosures KX







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IT INFRASTRUCTURE

**SOFTWARE & SERVICES** 



Compact and small enclosures





A wealth of experience for even greater efficiency.

# THE ORIGINAL

#### Rittal invented the standard enclosure

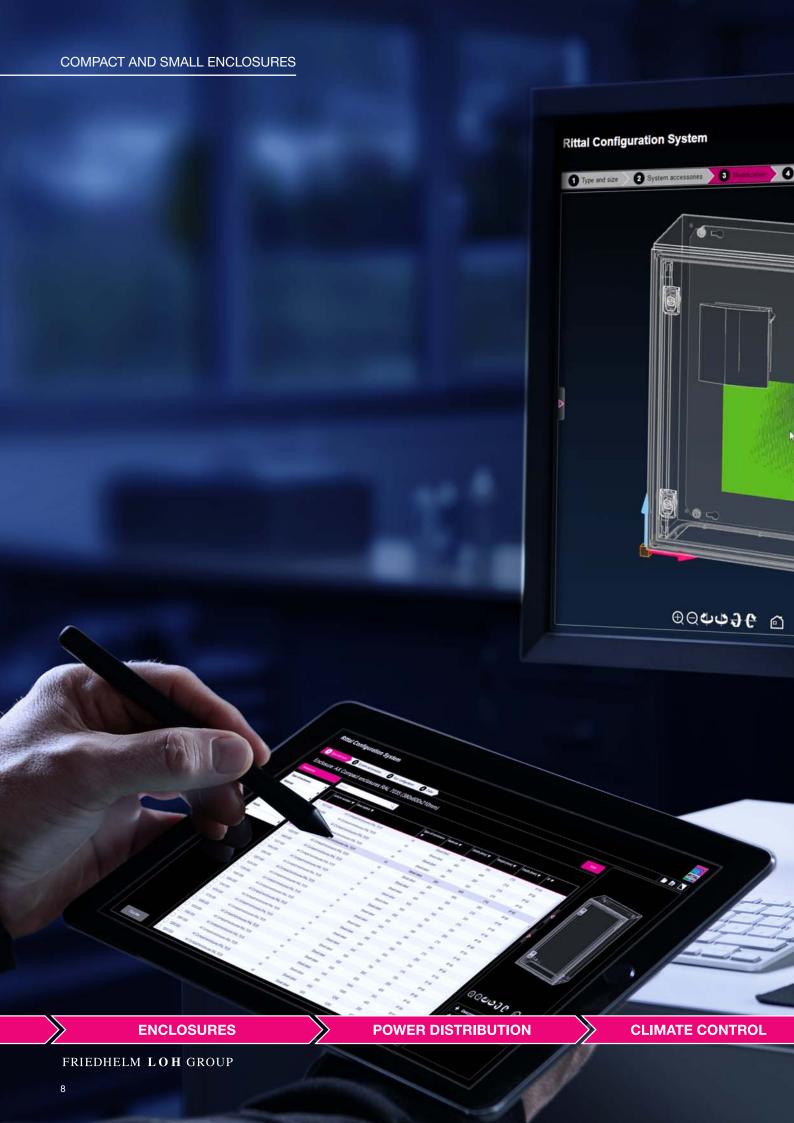
In 1961, Rittal was the first company in the world to series-produce enclosures. It all started with the compact enclosure AE, the predecessor of the current AX series. Going against industry advice, Rudolf Loh demonstrated a great deal of courage and considerable ingenuity in realising his vision of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

RITTAL

IT INFRASTRUCTURE



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.

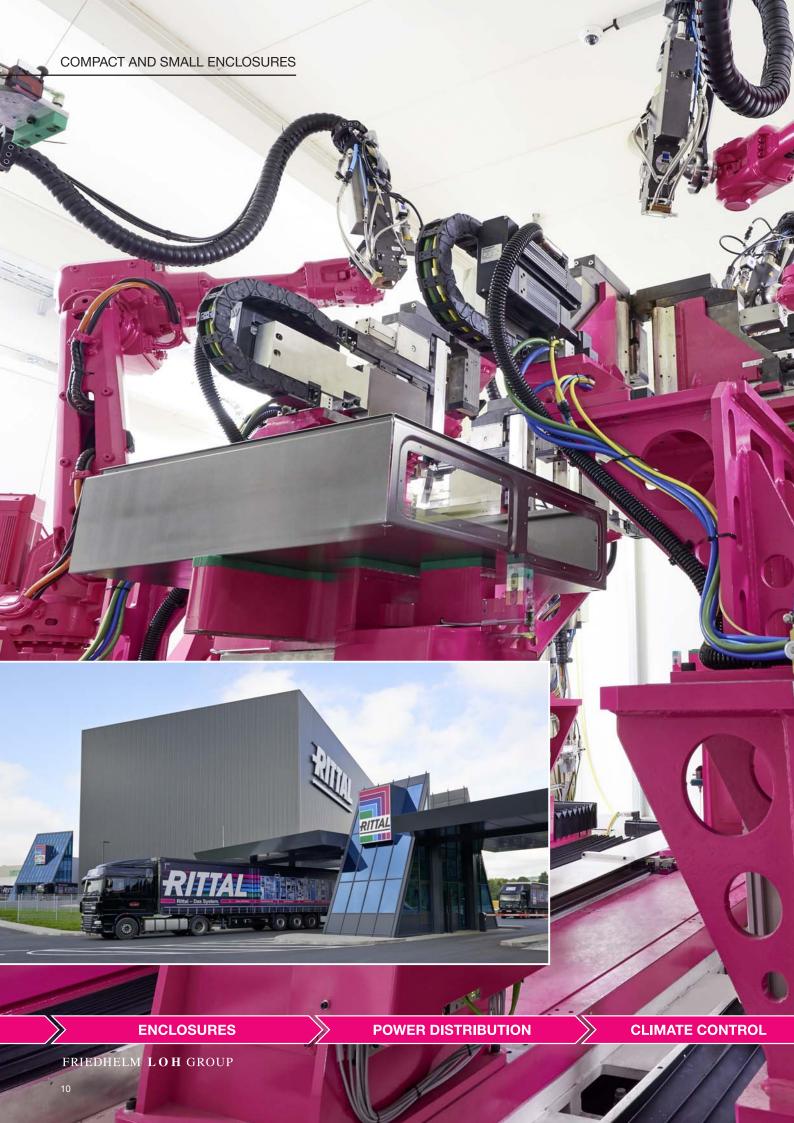




**IT INFRASTRUCTURE** 

Your configuration 6 Order







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

# THE TECHNOLOGY LEADER

#### Compact enclosures based on and geared towards Industry 4.0

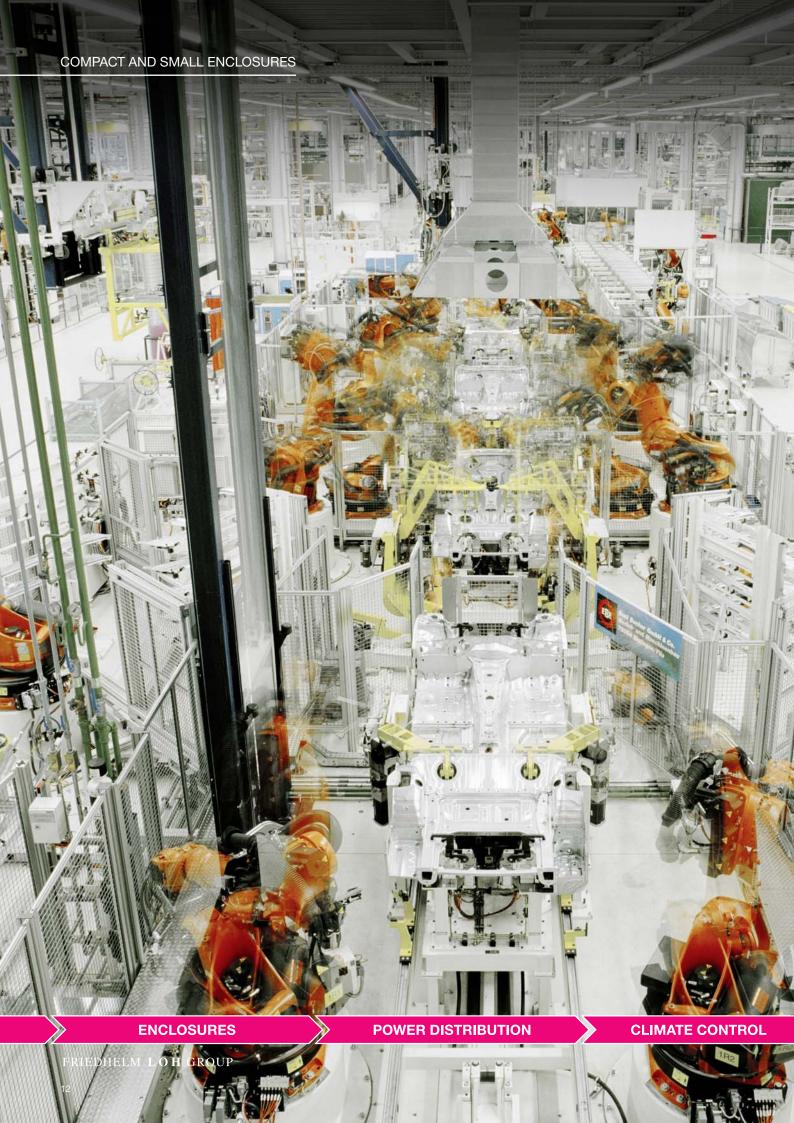
A dedicated production plant has been built in Haiger for our new compact enclosures. A sum of 250 million euros has been invested in the world's most state-of-the-art production facility for compact and small enclosures based on Industry 4.0 criteria. The plant's highly automated production management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

**IT INFRASTRUCTURE** 







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.

IT INFRASTRUCTURE





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.

**IT INFRASTRUCTURE** 





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.



**IT INFRASTRUCTURE** 

# 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 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 m from receipt of incoming goods through to	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	
ing plate and perforated door strip perforated door strip  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	

18 Compact and small enclosures

## Top customer benefits



Small	lono	العجا	ne K)	/

Terminal boxes KX	E-Box KX	Bus enclosures KX
All enclosure panels may be taken directly	from the packaging, without dismantling, ar	nd 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 cove through to delivery of the finished product	er and mounting plate allows seamless moni	toring, from receipt of incoming goods
Earthing points accessible from the front fa	acilitate fast, secure mounting of the earth st	raps
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 and small enclosures 19



# 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.

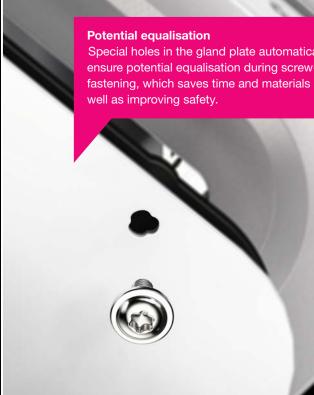










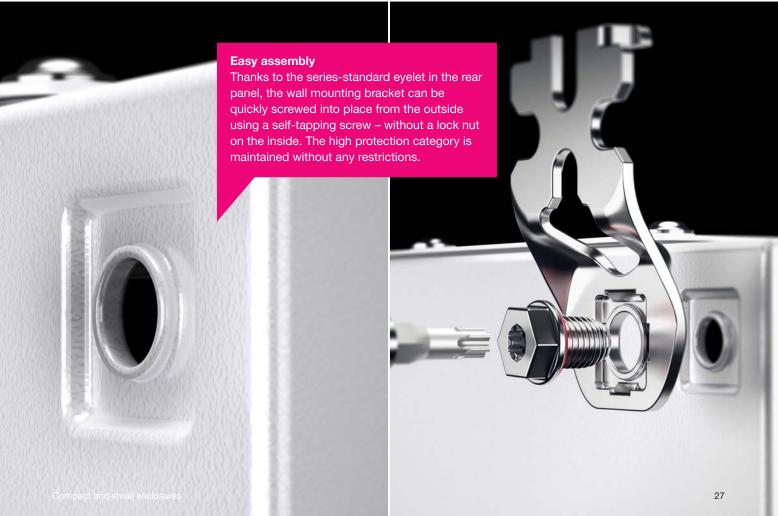


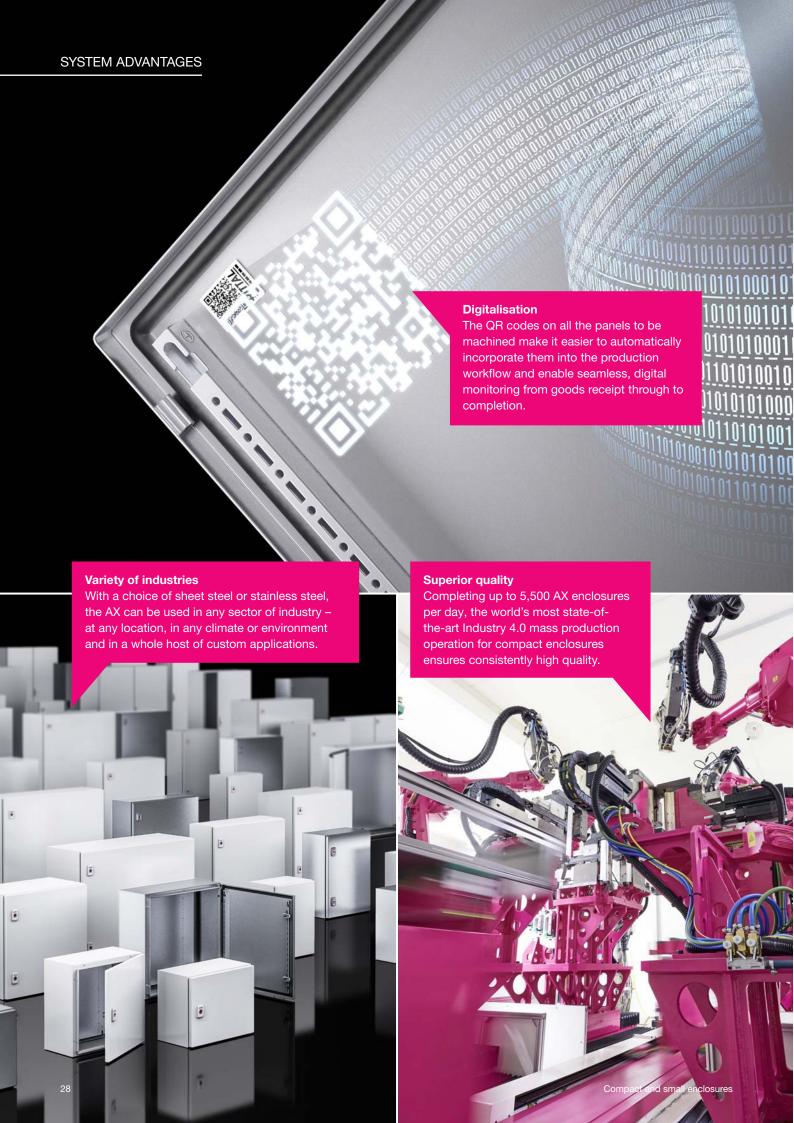


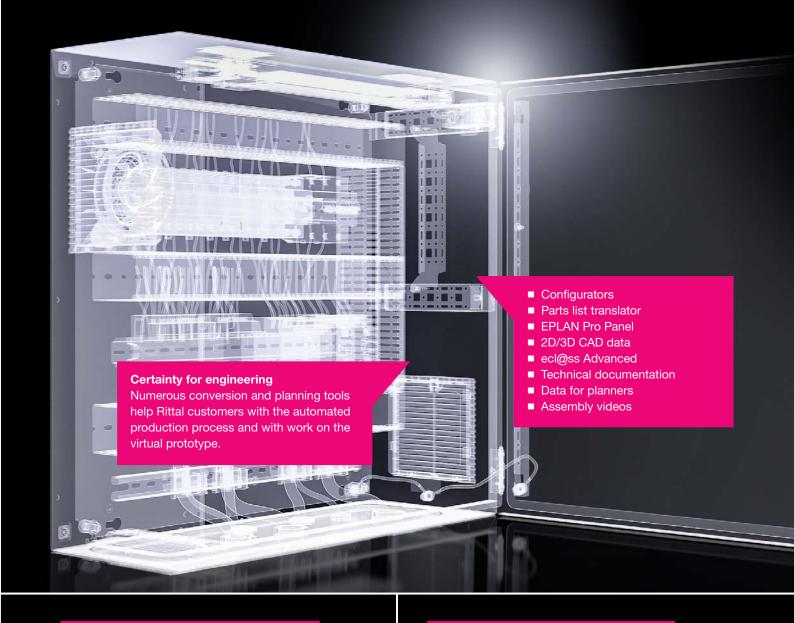














#### **Quality assurance**

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.



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: Dipcoatprimed, powder-coated on the outside, textured paint
- Mounting plate: Zinc-plated

Colour: - RAL 7035

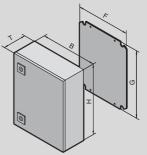
- Supply includes:
   Enclosure with door(s)
- Gland plate(s) in enclosure base
- Mounting platePerforated door strip
- Lock: 3 mm double-bit

Please note the product-specific scope of supply.

## **Approvals:** – UL

- cUL
- CSA

Further approvals can be found on the Internet.



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	1 pc(3).	7.0	8.8	
Protection category IP to IEC 60 529		IP 66	IP 66	
<u> </u>				
Protection category NEMA		NEMA 4	NEMA 4	
Product-specific scope of supply			1	
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	1		_	
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 15 $\mbox{mm}$	4 pc(s).	2508.020	2508.020	74
Wall mounting bracket, for AX sheet steel, KX sheet steel, wall distance 40 $\mbox{mm}$	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	1 (-)	=	-	
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
		–	see page	- 00
Viewing window, depth 36 mm Viewing window, depth 62 mm				
			-	
Operating panel	2 ng/s)	- 2440.010	2440.010	
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	1 (=)-	see page	see page	91

Width (B) mm	Packs of	380	380	380	380	400	400	Page
Height (H) mm	1 acks of	300	380	600	600	500	800	rage
Depth (T) mm		210	210	210	350	210	300	
Mounting plate width (F) mm		330	330	330	330	350	345	
Mounting plate width (i ) 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	1.25	2.0	
Material thickness – door min		2.0	2.0	2.5	2.5	2.0	2.5	
<u> </u>	1 no(a)	1031.000	1380.000	1038.000	1338.000	1045.000	1037.000	
Model No.	1 pc(s).		9.8	15.6		13.0	26.2	
Weight, approx. kg Protection category IP to IEC 60 529		7.5 IP 66	9.6 IP 66	IP 66	19.4 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		INCIVIA 4	INCIVIA 4	INCIVIA 4	INCIVIA 4	INCIVIA 4	INCIVIA 4	
Door(s)	I	1	1	1	1	1	1	T
		<u>'</u>		- '	· ·		•	
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			ı	I	ı	ı	I	
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 $\mathrm{mm}$	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	. 10 0 (0)	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	1 5-7	see page	see page	see page	see page	see page	see page	91
<u> </u>	l			,	, , ,	, , ,	,	91

Middle (P) com	Doolso of	F00	500	500	600	600	600	Dogo
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						
Protection category NEMA		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		I	1	T	1	T	T	
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 $\mbox{mm}$	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	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	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	71					
Wiring plan pockets with transparent pouch		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	l= = (0).	see page	83					
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass	. ps(0).	see page	91					
	1	2490	2090	page	pago	page	page	91

Mr. III. (D)	D 1 (	000	000	000	000	000	000	
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						
Protection category NEMA		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,	1 22(2)	2508.020	2508.020	0500,000	0500,000	2508.020	2508.020	74
wall distance 15 mm	4 pc(s).	2506.020	2508.020	2508.020	2508.020	2506.020	2506.020	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	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 vith security lock insert, lock E1			_	_	_	_	_	
Comfort handle AX with security lock insert, lock E1			_	_	_	_	_	
or semi-cylinders		-	_	-	-	-	-	
Lock inserts		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	(O).	see page	71					
Wiring plan pockets with transparent pouch		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	2 pc(s).	_	2476.010	2473.010	2476.010	_		72
					<b>+</b>	2426.500	2426 500	-
Dust guard trim  Farth strans	1 pc(s).	2426.500	2426.500	2426.500	2426.500		2426.500	72
Earth straps	1 ===/-1	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	91					
Cable gland, polyamide		see page	91					

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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						
Protection category NEMA		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	1 00(0).	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	_	2000.400	4599.200	4599.200	70
Punched section with mounting flange 14 x 39 mm,	20 ρο(δ).		4090.000	_				
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	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	71					
Wiring plan pockets with transparent pouch		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	. 50(0).	see page	83					
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass	1 00(0).	see page	91					
Cable gland, polyamide								91
Cable glatiu, polyattilüe		see page	91					

Width (B) mm	Packs of	800	800	800	800	800	1000	Page
	Packs of							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 55					
Protection category NEMA		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	1 po(o).	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	2393.300	2393.400	4695.000	70
	20 μυ(δ).	4097.000	4097.000	4097.000	_	_	4093.000	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	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	. 60(0).	see page	71					
Wiring plan pockets with transparent pouch		see page	71					
Base/plinth corner pieces with base/plinth trim panel,							ooo page	
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	83					
Baying kit	1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass		see page	91					
	1		see page	91				

#### Basic enclosure AX, sheet steel

Basic cholosale 7 VI, sheet steel				T					
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							
Protection category NEMA		NEMA 12							
Product-specific scope of supply	1		1		1		1		
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	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	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	71						
Wiring plan pockets with transparent pouch		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	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	91						
Cable glaria, brace									

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, nickelplated, double-bit insert stainless steel

#### Surface finish:

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

#### Supply includes:

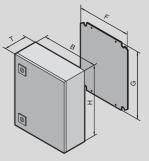
- Enclosure with door(s)
- Mounting plateLock: 3 mm double-bit

Please note the product-specific scope of supply.

#### Approvals:

- UL cUL
- CSA

Further approvals can be found on the Internet.



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	
Stainless steel 1,430	1 (AISI 304)	•	•	
Material Stainless steel 1.440	, ,	_	_	
Model No.	1 pc(s).	1003.000	1005.000	
Weight, approx. kg	1(-)	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 3 installation in the height	9 mm,	-	-	
Punched section with mounting flange 14 x 3 installation in the door	9 mm,	-	-	
Support strips		_	-	
LED system light		_	_	
Comfort handle AX for lock inserts or semi-cy	linders	_	_	
Mini-comfort handle AX for lock inserts or ser	mi-cylinders 1 pc(s).	2537.100	2537.100	67
Cam lock AX with double-bit insert, stainless (AISI 316L)	steel 1.4404 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-variab	le	_	_	
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	,			91
0 ,1 ,	5 pc(s).	2411.661	2411.661	
Cable gland, polyamide M63 x 1.5	3 pc(s).	2411.671	2411.671	91

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	t (G) mm		355	275	355	355	575	475	
	Stainless steel 1.4301 (AISI 304)		-	-	-	_	-	-	
Material	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 If	P to IEC 60 529		IP 66						
Protection category N	IEMA		NEMA 4X						
Product-specific so	cope of supply								
Door(s)			1	1	1	1	1	1	
Cam lock			1	1	1	1	2	2	
3-point lock system			-	-	-	-	-	_	
Accessories									,1
Wall mounting bracke KX stainless steel, wa	et, for AX stainless steel, all distance 15 mm	4 pc(s).	2433.510	2433.010	2433.010	2433.510	2433.010	2433.010	75
Wall angle, stainless		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 installa	ation	4 pc(s).	2393.210	2393.210	2393.210	2393.210	2393.210	2393.210	77
	mounting flange 14 x 39 mm,	4 pc(s).	-	-	-	_	8619.720	8619.710	78
	mounting flange 14 x 39 mm,		-	-	-	-	-	-	
Support strips	•		_	_	_	_	_	_	
LED system light			_	_	_	_	_	2500.100	92
, ,	or lock inserts or semi-cylinders		_	_	_	_	_	_	+
	AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2537.100	2537.100	2537.100	2537.100	67
	uble-bit insert, stainless steel 1.4404	1 pc(s).	2304.100	2304.100	2304.100	2304.100	2304.100	2304.100	68
Lock inserts			see page	67					
Perforated door strip			-	-	-	-	_	-	1
Door stay		5 pc(s).	2519.010	2519.010	2519.010	2519.010	2519.010	2519.010	71
	n pockets, width-variable	1 pc(s).	_	_	_	_	_	2515.200	71
Plastic wiring plan po		1 (7	see page	71					
• • • •	vith transparent pouch		see page	71					
Rain canopy	· · · · · ·	1 pc(s).	2476.010	2472.010	2472.010	2472.010	2476.010	-	72
Earth straps			see page	83					
Baying kit		1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass M	12 x 1.5	15 pc(s).	2411.801	2411.801	2411.801	2411.801	2411.801	2411.801	91
Cable gland, brass M	16 x 1.5	15 pc(s).	2411.811	2411.811	2411.811	2411.811	2411.811	2411.811	91
Cable gland, brass M	20 x 1.5	10 pc(s).	2411.821	2411.821	2411.821	2411.821	2411.821	2411.821	91
Cable gland, brass M		10 pc(s).	2411.831	2411.831	2411.831	2411.831	2411.831	2411.831	91
Cable gland, brass M		5 pc(s).	2411.841	2411.841	2411.841	2411.841	2411.841	2411.841	91
Cable gland, brass M		4 pc(s).	2411.851	2411.851	2411.851	2411.851	2411.851	2411.851	91
Cable gland, brass M		2 pc(s).	2411.861	2411.861	2411.861	2411.861	2411.861	2411.861	91
Cable gland, brass M		1 pc(s).	2411.871	2411.871	2411.871	2411.871	2411.871	2411.871	91
Cable gland, polyami		50 pc(s).	2411.601	2411.601	2411.601	2411.601	2411.601	2411.601	91
Cable gland, polyami		50 pc(s).	2411.611	2411.611	2411.611	2411.611	2411.611	2411.611	91
Cable gland, polyami		50 pc(s).	2411.621	2411.621	2411.621	2411.621	2411.621	2411.621	91
Cable gland, polyami		25 pc(s).	2411.631	2411.631	2411.631	2411.631	2411.631	2411.631	91
Cable gland, polyami		15 pc(s).	2411.641	2411.641	2411.641	2411.641	2411.641	2411.641	91
Janio giaila, poiyallii	Cable gland, polyamide M40 x 1.5		2411.651	2411.651	2411.651	2411.651	2411.651	2411.651	91
	Cable gland, polyamide M40 x 1.5  Cable gland, polyamide M50 x 1.5								01
Cable gland, polyami		5 pc(s). 5 pc(s).	2411.661	2411.661	2411.661	2411.661	2411.661	2411.661	91

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 widt	h (F) mm		450	450	550	550	550	550	
Mounting plate heig	ht (G) mm		475	475	355	575	575	735	
Matarial	Stainless steel 1.4301 (AISI 304)		-	-	-	-	-	-	
Material	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						
Protection category	NEMA		NEMA 4X						
Product-specific s	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 brack KX stainless steel, v	ket, for AX stainless steel, vall distance 15 mm	4 pc(s).	2433.010	2433.010	2433.010	2433.010	2433.510	2433.010	75
Wall angle, stainless	s 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 insta	llation	4 pc(s).	2393.210	2393.210	2393.210	2393.210	2393.210	2393.210	77
Punched section wi installation in the he	th mounting flange 14 x 39 mm, ight	4 pc(s).	8619.710	8619.710	-	8619.720	8619.720	-	78
Punched section wii	th mounting flange 14 x 39 mm,		-	-	-	-	-	-	
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	Mini-comfort handle AX for lock inserts or semi-cylinders		2537.100	2537.100	2537.100	2537.100	2537.100	2537.100	67
Cam lock AX with d (AISI 316L)	ouble-bit insert, stainless steel 1.4404	1 pc(s).	2304.100	2304.100	2304.100	2304.100	2304.100	2304.100	68
Lock inserts			see page	67					
Perforated door strip	0	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 p	lan pockets, width-variable	1 pc(s).	2515.200	2515.200	2515.300	2515.300	2515.300	2515.300	71
Plastic wiring plan p	ockets		see page	71					
Wiring plan pockets	with transparent pouch		see page	71					
Rain canopy		1 pc(s).	2362.010	-	2473.010	2473.010	2473.010	2473.010	72
Earth straps			see page	83					
Baying kit		1 pc(s).	1199.100	1199.100	1199.100	1199.100	1199.100	1199.100	64
Cable gland, brass I	M12 x 1.5	15 pc(s).	2411.801	2411.801	2411.801	2411.801	2411.801	2411.801	91
Cable gland, brass I	M16 x 1.5	15 pc(s).	2411.811	2411.811	2411.811	2411.811	2411.811	2411.811	91
Cable gland, brass I	M20 x 1.5	10 pc(s).	2411.821	2411.821	2411.821	2411.821	2411.821	2411.821	91
Cable gland, brass I	M25 x 1.5	10 pc(s).	2411.831	2411.831	2411.831	2411.831	2411.831	2411.831	91
Cable gland, brass I		5 pc(s).	2411.841	2411.841	2411.841	2411.841	2411.841	2411.841	91
Cable gland, brass I		4 pc(s).	2411.851	2411.851	2411.851	2411.851	2411.851	2411.851	91
Cable gland, brass I		2 pc(s).	2411.861	2411.861	2411.861	2411.861	2411.861	2411.861	91
Cable gland, brass I		1 pc(s).	2411.871	2411.871	2411.871	2411.871	2411.871	2411.871	91
Cable gland, polyan		50 pc(s).	2411.601	2411.601	2411.601	2411.601	2411.601	2411.601	91
Cable gland, polyan		50 pc(s).	2411.611	2411.611	2411.611	2411.611	2411.611	2411.611	91
Cable gland, polyan		50 pc(s).	2411.621	2411.621	2411.621	2411.621	2411.621	2411.621	91
Cable gland, polyan		25 pc(s).	2411.631	2411.631	2411.631	2411.631	2411.631	2411.631	91
Cable gland, polyan		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, polyan		5 pc(s).	2411.661	2411.661	2411.661	2411.661	2411.661	2411.661	91
Cable gland, polyamide M63 x 1.5  Cable gland, polyamide M63 x 1.5		3 pc(s).	2411.671	2411.671	2411.671	2411.671	2411.671	2411.671	91

Width (B) mm	Width (B) mm		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 heigh	at (G) mm		735	975	1175	975	1175	1175	
	Stainless steel 1.4301 (AISI 304)		-	-	-	-	-	_	
Material	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 I	P to IEC 60 529		IP 66	IP 66	IP 66	IP 55	IP 55	IP 55	
Protection category N			NEMA 4X	NEMA 4X	NEMA 4X	NEMA 12	NEMA 12	NEMA 12	
Product-specific so						l.			
Door(s)			1	1	1	2	2	2	
Cam lock			2	2	_	2	_	_	
3-point lock system			_	_	-	_	-	-	
Accessories			l.	ı	ı	ı	l .	I	
Wall mounting bracke KX stainless steel, wa	et, for AX stainless steel,	4 pc(s).	2433.010	2433.010	2433.010	2433.010	2433.010	2433.510	75
Wall angle, stainless		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 installa	ation	4 pc(s).	2393.300	2393.300	2393.300	2393.300	2393.300	2393.300	77
	n mounting flange 14 x 39 mm,	4 pc(s).	-	8619.750	8619.770	8619.750	8619.770	8619.770	78
	n mounting flange 14 x 39 mm,	4 pc(s).	_	_	8619.730	_	8619.710	8619.710	78
Support strips	л	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
, ,	or lock inserts or semi-cylinders	1 pc(s).	-	2300.110	2435.100	2300.110	2435.100	2435.100	66
	AX for lock inserts or semi-cylinders	1 pc(s).	2537.100	2537.100	2433.100	2537.100	2433.100	2433.100	67
	uble-bit insert, stainless steel 1.4404	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
•	an pockets, width-variable	1 pc(s).	2515.400	2515.400	2515.400	2515.200	2515.200	2515.200	71
Plastic wiring plan po		τρο(δ).	see page	see page	see page	see page	see page	see page	71
• • • •	with transparent pouch		see page	see page	see page	see page	see page	see page	71
Rain canopy	with transparent poderi	1 pc(s).	2474.010	2475.010	2475.010	2363.010	2363.010	2363.010	72
Earth straps		τρο(δ).	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 M	M12 v 1 5	15 pc(s).	2411.801	2411.801	2411.801	2411.801	2411.801	2411.801	91
Cable gland, brass M		15 pc(s).	2411.811	2411.811	2411.811	2411.811	2411.811	2411.811	91
Cable gland, brass M		10 pc(s).	2411.821	2411.821	2411.821	2411.821	2411.821	2411.821	91
Cable gland, brass M		10 pc(s).	2411.831	2411.831	2411.831	2411.831	2411.831	2411.831	91
Cable gland, brass M		5 pc(s).	2411.841	2411.841	2411.841	2411.841	2411.841	2411.841	91
Cable gland, brass M		4 pc(s).	2411.851	2411.851	2411.851	2411.851	2411.851	2411.851	91
Cable gland, brass M		2 pc(s).	2411.861	2411.861	2411.861	2411.861	2411.861	2411.861	91
Cable gland, brass M			2411.871		2411.871	2411.871	2411.871	2411.871	91
Cable gland, brass iv		1 pc(s).	2411.601	2411.871		2411.601			91
Cable gland, polyami		50 pc(s).	2411.601	2411.601 2411.611	2411.601 2411.611	2411.601	2411.601 2411.611	2411.601 2411.611	91
Cable gland, polyami		50 pc(s).	2411.611	2411.611	2411.611	2411.611	2411.611	2411.611	91
0 ,1 ,		50 pc(s).							91
Cable gland, polyami		25 pc(s).	2411.631	2411.631	2411.631	2411.631	2411.631	2411.631	
Cable gland, polyami		15 pc(s).	2411.641	2411.641	2411.641	2411.641	2411.641	2411.641	91
Cable gland, polyami		5 pc(s). 5 pc(s).	2411.651	2411.651	2411.651	2411.651	2411.651	2411.651	91
0 11 1	Cable gland, polyamide M50 x 1.5		2411.661	2411.661	2411.661	2411.661	2411.661	2411.661	91
Cable gland, polyami	UL IVIOS X 1.5	3 pc(s).	2411.671	2411.671	2411.671	2411.671	2411.671	2411.671	91

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: Dipcoatprimed, 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 ∪	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						
Gland plates IP 66			see page	e 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 <sup>1)</sup>	5501.635 <sup>1)</sup>	5501.635 <sup>1)</sup>	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 t	o 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

<sup>&</sup>lt;sup>1)</sup> 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.





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: Dipcoatprimed, powder-coated on the outside, textured paint
- Handle strip: Natural anodised
- Front panel: Natural anodised

#### Colour:

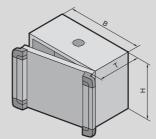
- Enclosure and door: RAL 7035
- Cover caps: similar to **RAL** 7024

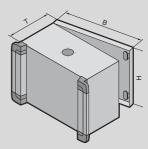
#### Protection category IP to IEC 60 529: - IP 55

#### Supply includes:

- Enclosure with door, cut-out and reinforcement for support arm connection Ø 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

- 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 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

#### Operating housings AX with handle strips

Width (B) mm		Packs of	300	300	380	380	380	Page
Height (H) mm		1 dons of	200	300	300	380	380	rage
<u> </u>								
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	
Candaina agasas	from the rear		•	-	-	-	-	
Servicing access	from the front		-	•			-	
Accessories								
Punched section with r installation in the height	mounting flange 14 x 39 mm, t	4 pc(s).	-	-	-	8619.700	8619.700	
Punched section with r installation in the width	mounting flange 14 x 39 mm,	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 in	nterior 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 A> lock E1	K with security lock insert,	1 pc(s).	2537.200	-	-	-	2537.200	67
Mini-comfort handle A> or semi-cylinders	K for padlock and lock inserts	1 pc(s).	2537.300	-	-	-	2537.300	67
Lock inserts			see page	68				
Earth straps			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	
0	from the rear		-	•	•	•	-	
Servicing access	from the front		•	-	-	-	•	
Accessories								
Punched section with minstallation in the height	nounting flange 14 x 39 mm,	4 pc(s).	8619.710	8619.710	8619.700	8619.720	8619.720	
Punched section with minstallation in the width	nounting flange 14 x 39 mm,	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 int	terior installation	4 pc(s).	6205.100	6205.100	6205.100	6205.100	6205.100	80
Mini-comfort handle AX or semi-cylinders	for lock inserts	1 pc(s).	-	2537.100	2537.100	2537.100	-	67
Mini-comfort handle AX lock E1	with security lock insert,	1 pc(s).	-	2537.200	2537.200	2537.200	-	67
Mini-comfort handle AX or semi-cylinders	for padlock and lock inserts	1 pc(s).	-	2537.300	2537.300	2537.300	-	67
Lock inserts			see page	68				
Earth straps	·		see page	83				



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:

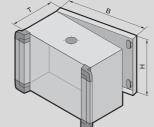
- IP 65

#### 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
- Rear door with r/h hinge
- Cam lock with 3 mm double-bit

#### Note:

- The support arm connection and door hinge may be swapped over by rotating the
- 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:

- ÜL
- 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





# ACCESSORIES AX – MORE **RELIABLE**

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







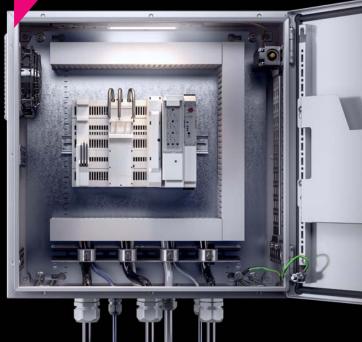
# Interior installation

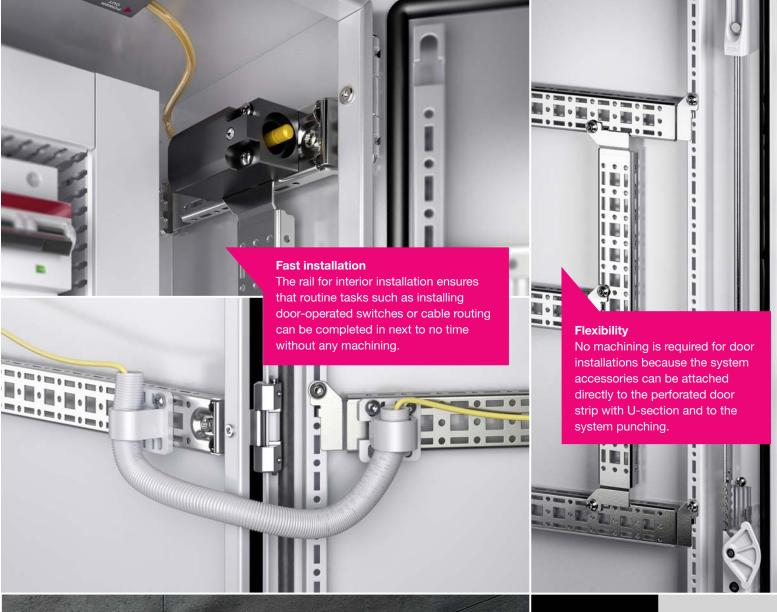
Custom enclosures can be configured quickly and easily due to the tool-free, height-adjustable mechanically locked fixing of the interior installation rail using integrated locators and thanks to full compatibility with the comprehensive

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.



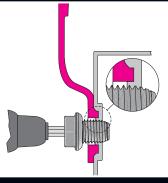




# Installation









#### 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. cable chamber.





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.

# Installation



Compact and small enclosures 55

# Doors/locks







#### **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 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 designations are always to tant 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.





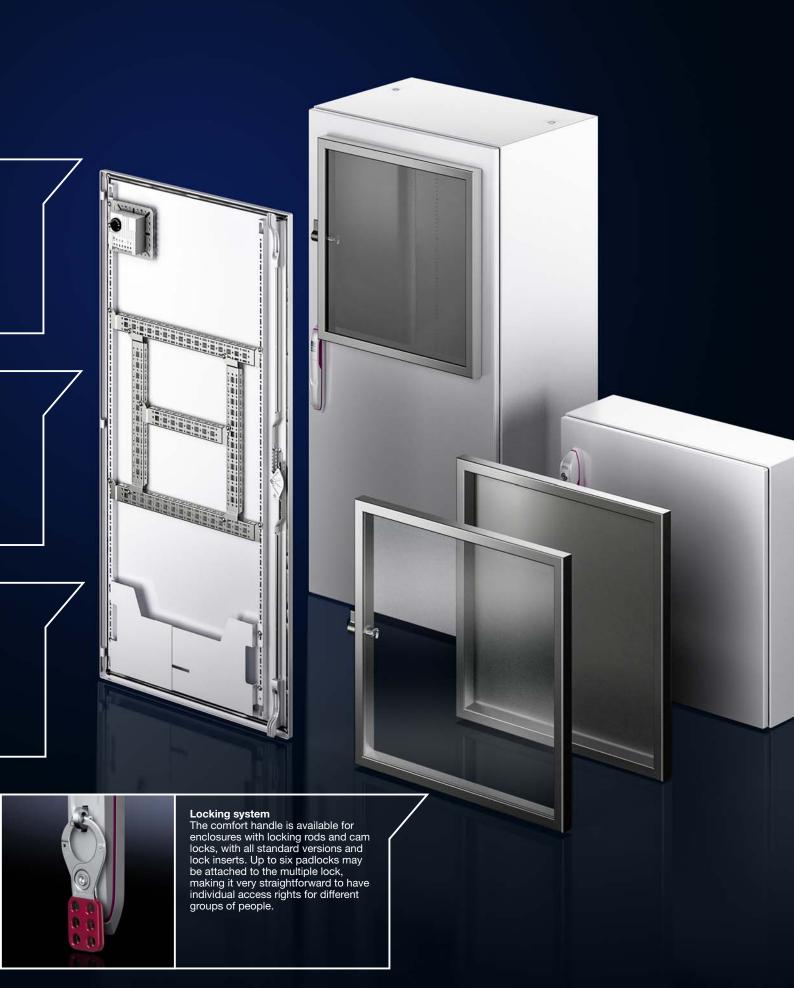












Compact and small enclosures

# Interior installation







#### 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 instal-





#### 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



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 pasis 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 prevent-ing 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.

Compact and small enclosures

# Cable entry







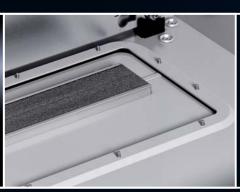


Cable routing
The cable conduit and cable conduit holder ensure flexible and reliable cable routing between door and enclosure.











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

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 of a grant desired our face. tion 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

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 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.



Compact and small enclosures 61

#### Base/plinth system AX







#### Modular base/plinth diversity

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

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



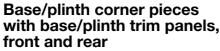
the base/plinth corner pieces with base/plinth trim panels, front and rear

the base/plinth trim panels, side

One complete base/plinth

Base/ plinth	Basic form	Cable entry opti	ons		
				Stabilisation of I plinths	payed base/
100 mm					
200 mm					





#### 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						



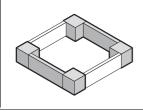
#### Also required:

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



#### 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

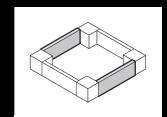
closure depth mm <b>Model</b>	No.
300 2820.3	310
400 <b>2820.</b> 4	110

#### 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  $\varnothing$ .

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

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



#### 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 60K

#### 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:

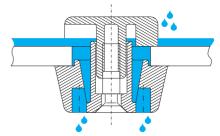
- Similar to RAL 7035

#### Protection category:

 Protection from splashed water, when professionally installed at the bottom

6 pc(s).	2459.000	
!	<u> </u>	

Model No.







#### **Baying kit**

#### for AX, KX

For baying AX/KX enclosures. The additional cutouts 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  $H \times D = 800 \times 350$  mm.

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

#### Supply includes:

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

#### 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)

- 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:

#### Supply includes:

- Aluminium frame
- Display panel
- HingesBrackets

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



#### 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

			2
	For lock inserts or semi-cylinders	With security lock insert E11)	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 <sup>2)</sup>	2467.000	-	2467.000
Push-button insert	2468.000	-	2468.000
Push-button and lock insert <sup>2)</sup>	2469.000 <sup>3)</sup>	-	2469.000 <sup>3)</sup>
Semi-cylinders			
To DIN 18 252 <sup>4)</sup>	9785.040	-	9785.040
IO DIN 10 202	9785.042 <sup>5)</sup>	_	9785.042 <sup>5)</sup>

<sup>1)</sup> 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

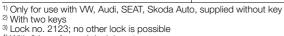
#### Lock system

#### 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.

	3		
	For lock inserts or semi-cylinders	With security lock insert E11)	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			<u> </u>
Lock insert, lock no. 3524 E <sup>2)</sup>	2467.000	-	2467.000
Push-button insert	2468.000	_	2468.000
Push-button and lock insert <sup>2)</sup>	2469.000 <sup>3)</sup>	_	2469.000 <sup>3)</sup>
Semi-cylinders	·	•	·
To DIN 18 252 <sup>4)</sup>	9785.040	-	9785.040
IO DIN 10 202 "	9785.042 <sup>5)</sup>	-	9785.0425)





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

		9 1
	Mode	l No.
Lock insert, lock no. 3524 E1)	2467.000	-
Push-button insert	2468.000	-
Push-button and lock insert <sup>1)</sup>	2469.000 <sup>2)</sup>	-
Comi culindor to DINI 10 0503)	-	9785.040
Semi-cylinder to DIN 18 2523)	_	9785-0424)

<sup>1)</sup> With two keys









<sup>4)</sup> With 3 keys for each lock insert 5 Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs

With two keys
 Lock no. 2123; no other lock is possible
 With 3 keys for each lock insert
 Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs

#### 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

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



#### 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

#### Lock system

#### **Enclosure key**

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

	7	R	000	X.
		Mode	el No.	
	_	-	2549.000	2549.500 <sup>2)</sup>
Double-bit no. 5	2531.000	_	•	•
Security lock no. 3524 E	_	2532.000 <sup>1)</sup>	_	-
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	-	-	-



2449.010

3 pc(s).

#### 180° hinge

For extending the door opening angle to 180°.

#### Material:

Die-cast zinc

#### Supply includes:

Assembly parts and drilling template



<sup>1)</sup> Packs of 2 2) With bit adaptor and reversible bit for: multi-tooth size 25 and Phillips-head (Ph 2)

#### **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

#### 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 stav

#### Material:

#### Surface finish:

Zinc-plated

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



#### 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

#### **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





#### 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	Clea	rance ope	Model No.	
	W	Н	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



#### 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:

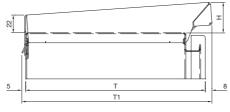
- Brushed, grain size 240

#### Supply includes:

Assembly parts

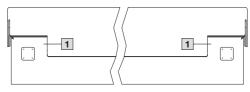
	or	F	
ГН	Enclosure depth T mm	Enclosure width mm	
37	210	300	30
37	210	380	38
37	210	500	50
37	210	600	60
47	350	600	60
43	300	760	76
43	300	800	80
43	300	1000	100

#### Side view



T1 = Enclosure depth T + 13 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:

EyeboltsReinforcement plates

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

#### 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





#### 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.

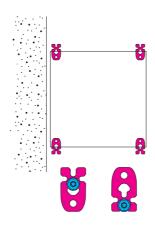
#### Benefits:

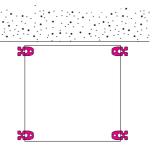
- Screw-fastened directly from the rear with a selftapping screw in the enclosure eyelet
- Simply suspend the wall-mounted bracket from a screw in the wall
- The four different mounting positions allow the wall mounting bracket to be tailored to local conditions on site.
- As an alternative to the self-tapping 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

#### Sample applications





Wall distance

15

40

Material

Sheet steel,

zinc-plated

Packs

4 pc(s).

4 pc(s).

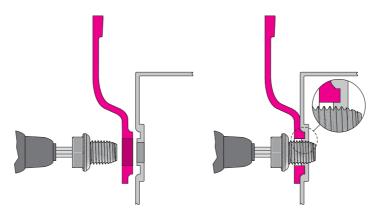
Model No.

2508.020

2503.020



Attachment with self-tapping screw



#### **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.
- ditions 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.

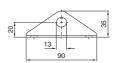
#### Supply includes:

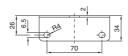
Assembly parts for mounting on the enclosure

#### 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







Packs of

2 pc(s).

Model No.

2584.100

#### Wall mounting







#### Pole clamp

#### for AX, KX

For reliable, convenient fastening to round or square

For pole diameter / size:

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

- 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 long4 clamping sections
- 2 clamping straps
- 4 clamping brackets
- 4 self-tapping M10 bolts for mounting onto the enclosure



#### 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

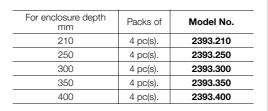
#### Surface finish:

- Zinc-plated

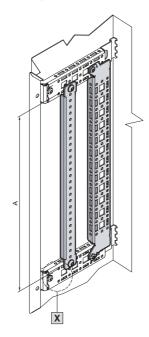


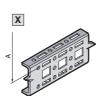
#### Also required:

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

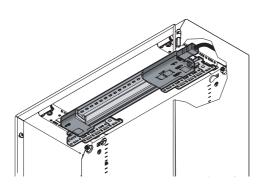


#### **Configuration examples:**





A = Rail centre distance



Mounting of LED system light











#### Rail systems





#### **Punched section with mount**ing flange, 14 x 39 mm

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 <sup>1)</sup>	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

<sup>1)</sup> 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

#### 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 enclos widt mn	sure :h	Support rails length mm	Type	Packs of	Model No.
150	)	137		10 pc(s).	2314.000
200	)	187	TS 35/7.5	10 pc(s).	2315.000
300	)	287	18 35/7.5	10 pc(s).	2316.000
400	)	387		10 pc(s).	2317.000
500	)	487	TQ 25/15	10 pc(s).	2318.000
600	)	587	TS 35/15	10 pc(s).	2319.000



#### Support rails

to EN 60 715

Fixed length: 2 m

Туре	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



#### **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

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







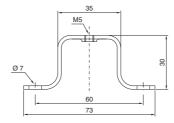
#### Rail mounting bracket

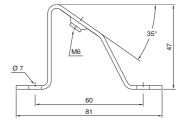
For individual rail mounting.

#### Material:

- Sheet steel, zinc-plated

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





#### **Assembly components**

#### Metal multi-tooth screw

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

#### **Self-tapping screw**

For the round holes  $\oslash$  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

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

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



#### 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

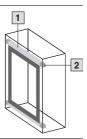
#### Note:

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



#### Accessories:

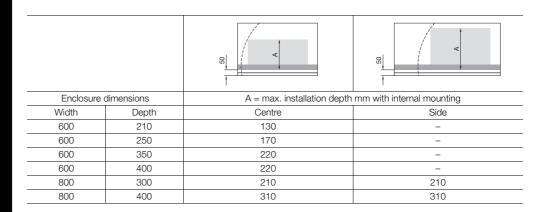
- 482.6 mm (19") fastener, 1 U, 2090.000



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	600	1 pc(s).	8619.600
kit	800	1 pc(s).	8619.610
2 Mounting kit AX	600 800	4 pc(s).	2034.010





#### 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

### **Earthing**

#### **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	Length	Packs of	Model No.
Door	Enclosure	Mounting plate	mm <sup>2</sup>	mm	Facks of	woder No.
			4	170	5 pc(s).	2564.000
			16	170	5 pc(s).	2565.000
			25	170	5 pc(s).	2566.000
M8	M8	M8	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



#### ISV distribution enclosures, installation kits



#### ISV installation kit

#### for AX

For mounting ISV installation modules in the enclo-

#### Supply includes:

- Assembly kit
- Support rails
- Contact hazard protectionAssembly 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 vertical sub-division of the support frame in the enclosure.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

Heigh	Height unit		Model No.
U	mm	Packs of N	Model No.
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 ≙ 150 mm

#### Cable gland

#### 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.

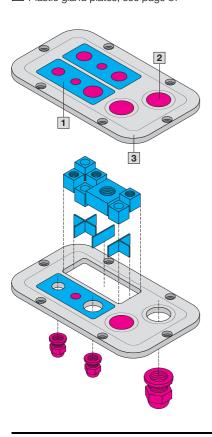


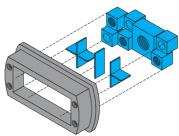
0

Modular cable entry as sealing frame plate

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





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:

#### Protection category IP to IEC 60 529

#### 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

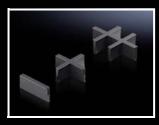


#### Also required:

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



#### 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.

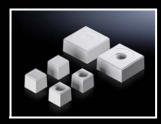
#### Material:

- 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



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

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

#### **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

- 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:

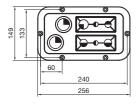
- Cable entry, modular, see page 85 Cable glands, see page 91



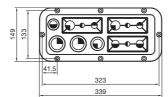


Mod	el No.	2561.200	2562.200	2563.200	2564.200	2565.200	2566.200	2567.200
Pack	s of	1 pc(s).	1 pc(s). 1 pc(s). 1 pc(s). 1 pc(s). 1 pc(s).					1 pc(s).
Gland	d plate	Size 1	Size 1 Size 2 Size 3 Size 4 Size 5 Size 6					Size 7
Dime	nsions W x D mm	256 x 149	256 x 149 339 x 149 447 x 149 534 x 149 301 x 221 401				401 x 221	436 x 221
	Diameter mm	Number of cable entries						
•	M12	2	3	4	5	4	4	4
•	M16	1	2	3	4	3	4	5
<b>-</b>	M20	2	3	5	6	4	5	5
$\odot$	M25	1	3	3	5	3	4	4
•	M32	2	2	1	1	1	1	4
•	M40	_	-	1	1	1	1	1
•	M50	_	-	-	-	-	1	1
Recta	angular cut-outs	2	3	4	6	5	6	6

#### Size 1



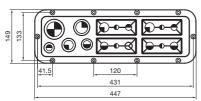
#### Size 2



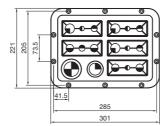
#### Size 3

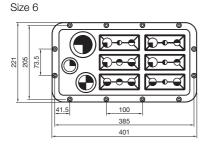
Size 4

133



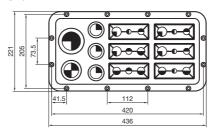
#### Size 5





518 534

Size 7



#### **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:

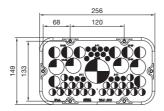
- IP 66 if installed correctly

#### Note:

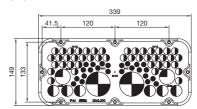
 The applicable size may be taken from the relevant product ordering page

Mod	del No.	2561.300	2562.300	2563.300	2564.300	2565.300	2566.300	2567.300
Pack	ks of	1 pc(s).	1 pc(s). 1 pc(s). 1 pc(s). 1 pc(s). 1 pc(s). 1					
Glan	nd plate	Size 1 Size 2 Size 3 Size 4 Size 5 Size 6 Size						Size 7
Dime	ensions 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	30
•	10 – 15	22	44	46	48	40	50	52
•	15 – 25	8	6	8	8	5	8	8
	19 – 34	4	2	2	2	2	2	6
•	26 – 35	_	-	4	2	-	2	4
•	26 - 54	1	2	2	2	2	2	2
$\bigcirc$	50 – 110	_	-	-	1	1	1	1

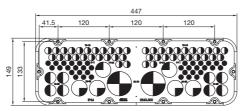
Size 1



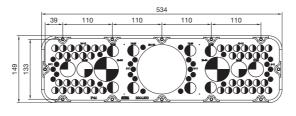
Size 2



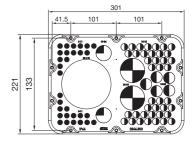
Size 3



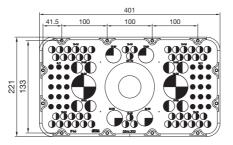
Size 4



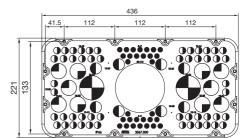
Size 5



Size 6



Size 7



#### **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



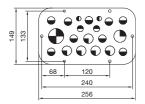
#### Accessories:

 Cable glands made from polyamide or brass, see page 91

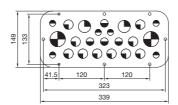


Мо	del No.	2571.100	2572.100	2573.100	2574.100	2575.100	2576.100	2577.100
Pac	ks of	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).
Glar	nd plate	Size 1	Size 1 Size 2 Size 3 Size 4 Size 5 Size 6 Size					Size 7
Dim	ensions W x D mm	256 x 149	339 x 149	447 x 149	534 x 149	301 x 221	401 x 221	436 x 221
	Diameter mm	Number of cable entries						
0	M12	2	-	4	1	2	2	6
$\odot$	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

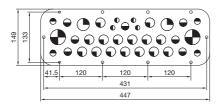
Size 1



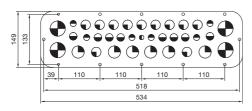
Size 2



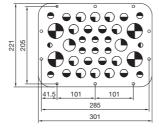
Size 3



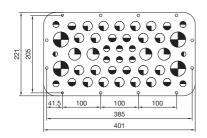
Size 4



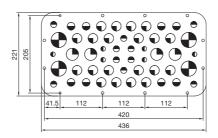
Size 5



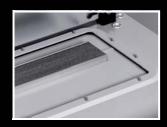
Size 6



Size 7



#### 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.

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

#### Material:

- Gland plate: Sheet steel

#### Colour:

- RAL 7035

#### Protection category IP to IEC 60 529:

- IP 55 if installed correctly



#### 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

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

#### Material:

- Plastic

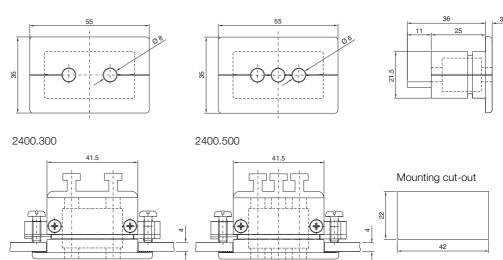
#### Colour:

- RAL 9005

## Protection category IP to IEC 60 529: - IP 65 if installed correctly

#### Supply includes:

Assembly parts



#### 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 6Seal: 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 consection.

#### Protection category IP to IEC 60 529:

- IP 68

#### Cable glands, metric

Size	Cable diameter mm	Minimum shield diameter <sup>1)</sup> 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

<sup>&</sup>lt;sup>1)</sup> Minimum shield diameter = cable diameter minus cable sheathing



## LED system light



Compact enclosures AX Page 30 Connection accessories Page 93

- 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

- Connection accessories should be ordered separately
- Further information on countryspecific 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-in:	sulated)	
	UL	•	-	-	-
Annuarala	cUL	•	-	-	-
pprovals	CCC	•	•	-	-
	ENEC	•	•	-	-
	Screw-fastening	•	•	-	-
nstallation type	Clip attachment		-	-	-
	Magnetic attachment to surfaces (accessory)		-	-	-
	Infeed	2-pole	2-pole	2-pole	2-pole
Connection options	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 a	ccessories 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:

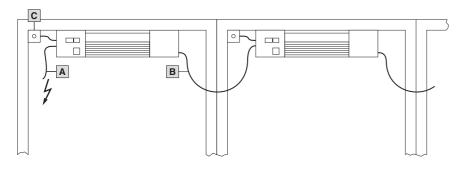
### + Accessories:

Cable ties 2597.000



Connection cable		Length	Packs	Model No.
for	UL	mm	of	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
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
- © 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

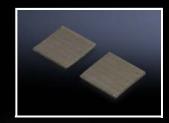
	UL	Length	To fit	Packs of	Model No.
	OL	mm	10 111	Packs of	black
Connection cable	-	800	230 V AC/24 V DC,	1 pc(s).	2500.460
COTTRECTION GADIE		800	1 A	1 pc(s).	2500.470

### Mounting kit magnet

for LED system light

For sticking onto the rear of lights without a socket.

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





# 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.





Compact and small enclosures 95

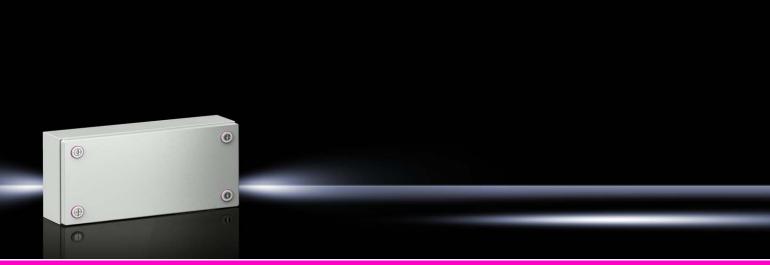








Terminal boxes KX, sheet steel, without gland plate



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: Dipcoatprimed, 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

### 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

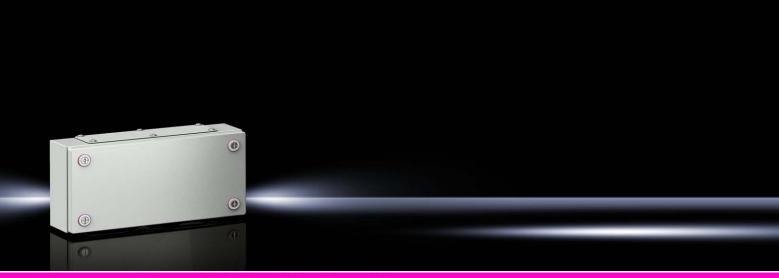
Width mm	Packs of	300	400	400	400	400	500	Page
Height mm		300	150	200	300	400	200	
Depth mm		120	120	120	120	120	120	
Material thickness – enclosure mm		1.25	1.25	1.25	1.25	1.25	1.25	
Material thickness – cover mm		1.25	1.25	1.25	1.25	1.25	1.25	
Model No.	1 pc(s).	1507.000	1589.000	1504.000	1508.000	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

### 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



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: Dipcoatprimed, 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 coverMini 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

### 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



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

### 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





# E-BOX KX – MORE **TIME SAVED**

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









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

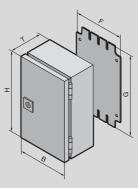
#### Supply includes:

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

#### Approvals:

- ÜL
- cUL CSA
- Further approvals can be found

on the Internet.



## 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



## 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	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



## 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 <sup>1)</sup>	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

<sup>1)</sup> Must be cut to length accordingly



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

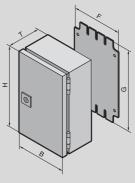
#### Supply includes:

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

#### Approvals:

- ÜL
- 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	
Stainless steel 1.4301 (AISI 304)		•		-	•	
Material 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 <sup>1)</sup>	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

<sup>1)</sup> Must be cut to length accordingly





# 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.





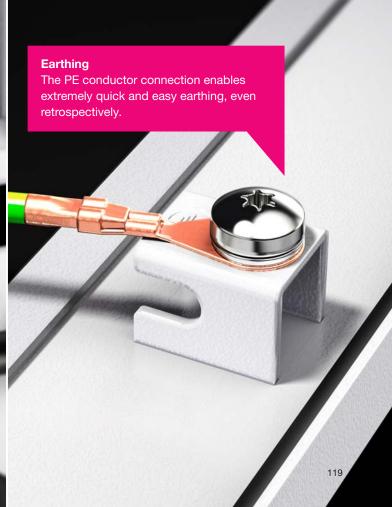












Bus enclosures KX, sheet steel



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: Dipcoatprimed, 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

Bus enclosures KX, sneet s	iteei					
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

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 lidMini cam lock

## Approvals:

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

## Rus enclosures KX stainless steel

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**

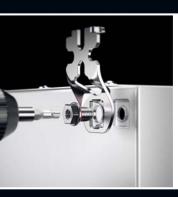
Accessory components that are perfectly coordinated with the enclosures offer more possibilities and significant savings.

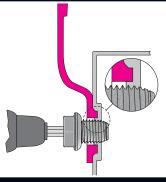




# System configuration

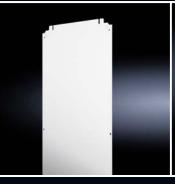


















Pole clamp
The universal pole clamp
makes it very easy to fasten
enclosures to round or square
poles without any machining.





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 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 crosssections 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.







## 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 60K

#### 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

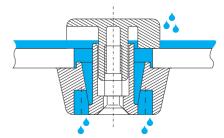
#### Colour:

- 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  $H \times D = 800 \times 350$  mm.

_	•
Model No.	Packs of
1100 100	1 nc(e)

#### Supply includes:

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



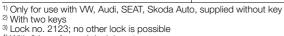
## Lock system

## 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	With security lock	For padlocks and lock
	or semi-cylinders	insert E11)	inserts or semi-cylinders
		Model No.	<u> </u>
	2537.100	2537.200	2537.300
Lock inserts, type A	<u>.</u>	•	<u>.                                      </u>
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	<u> </u>		<u> </u>
Lock insert, lock no. 3524 E <sup>2)</sup>	2467.000	-	2467.000
Push-button insert	2468.000	-	2468.000
Push-button and lock insert <sup>2)</sup>	2469.000 <sup>3)</sup>	-	2469.000 <sup>3)</sup>
Semi-cylinders	-	•	·
To DIN 18 252 <sup>4)</sup>	9785.040	-	9785.040
10 DIN 16 252"	9785.042 <sup>5)</sup>	-	9785.0425)



## 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







<sup>|</sup> Ock No. 2120, No data rooms passed
| With 3 keys for each lock insert
| Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs

## 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.

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

# Supply includes: - Cover hinge - Stoppers

- Assembly parts



## **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



## **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



## **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.

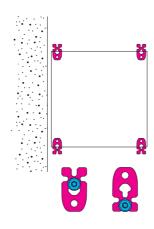
#### Renefits:

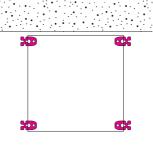
- Screw-fastened directly from the rear with a self-tapping screw in the enclosure eyelet
- Simply suspend the wall-mounted bracket from a screw in the wall
- The four different mounting positions allow the wall mounting bracket to be tailored to local conditions on site
- As an alternative to the self-tapping 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

#### Sample applications





Wall distance

15

40

Material

Sheet steel,

zinc-plated

Packs

4 pc(s).

4 pc(s).

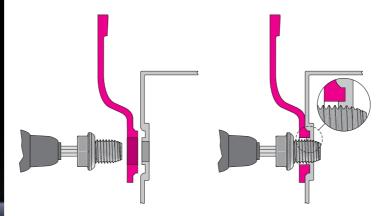
Model No.

2508.020

2503.020



Attachment with self-tapping screw



## **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

- 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 straps4 clamping brackets
- 4 self-tapping M10 bolts for mounting onto the enclosure

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







## 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

|--|

## essories:

- 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		10 pc(s).	2314.000
200	187	TS 35/7.5	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

## 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	Length	Packs of	Model No.
Door/cover	Enclosure	Mounting plate	mm <sup>2</sup>	mm	racks of	Widdel No.
M6 M6	v16 M6	10	200	5 pc(s).	2565.100	
IVIO	IVIO	Olvi	10	350	5 pc(s).	2565.050

## 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.
0	M20	1 pc(s).	1581.200



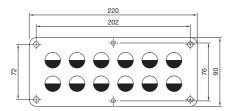
#### Accessories:

To fit

2 cables

Ø 6 – 8 mm 3 cables Ø 4 – 6 mm

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



Packs of

1 pc(s).

5 pc(s).

Model No.

2400.300

2400.500



## 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

М	ate	eri	ial	:

- Plastic

#### Colour:

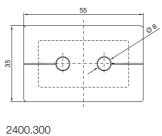
- RAL 9005

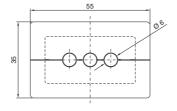
## Protection category IP to IEC 60 529:

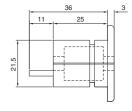
- IP 65 if installed correctly

## Supply includes:

Assembly parts

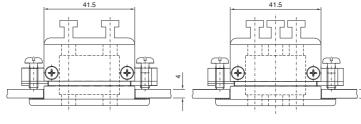






Mounting cut-out

2400.500



## 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 6Seal: 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 consection.

## Protection category IP to IEC 60 529:

- IP 68

#### Cable glands, metric

Size	Cable diameter mm	Minimum shield diameter <sup>1)</sup> 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

<sup>&</sup>lt;sup>1)</sup> Minimum shield diameter = cable diameter minus cable sheathing



## Technical information

## 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						
	•	•						
		Erichsen cupping test to DIN EN ISO 1520	≥ 4 mm					
Interior/exterior:	and in cavities, which produces a high level of corrosion protection even at the assembly	Buchholz hardness to DIN EN ISO 2815	≥ 80					
Anodic dipcoat priming	stage.	Cross cutting to DIN EN ISO 2409	Gt 0					
	The primer is readily overpainted and free from h	The primer is readily overpainted and free from heavy metals, chromate and silicone.						
Stove enamelling								
	<u> </u>							
		Erichsen cupping test to DIN EN ISO 1520	≥ 3.5 mm					
	Powder-coating is distinguished by a high level	Buchholz hardness to DIN EN ISO 2815	≥ 80					
	of mechanical resistance, excellent corrosion	Cross cutting to DIN EN ISO 2409	Gt 0					
Exterior: Textured powder coating	protection, good resistance to chemicals and temperature, and its facility for decontami-	Salt spray test to DIN EN ISO 9227 NSS	Test period: 168 hrs					
restured powder coating	nation.	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					
	The powder coating is readily overpainted and is free from heavy metals, chromate and silicone.							

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	Degrees of protection for protection against contact and foreign bodies: First numeral			Degrees of protection for p Second no	
First	Degree of protection		Second	Second Degree of protection	
numeral	Description	Explanation	numeral	Description	Explanation
1	Protected against solid for- eign objects with a diame- ter 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 for- eign objects with a diame- ter of 12.5 mm and greater	The object probe, a sphere 12.5 mm in diameter, must not penetrate fully. 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 for- eign objects with a diame- ter of 2.5 mm and greater	The object probe, a sphere 2.5 mm in diameter, must not penetrate at all <sup>1)</sup> .	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 for- eign objects with a diame- ter of 1.0 mm and greater	The object probe, a sphere 1.0 mm in diameter, must not penetrate at all <sup>1)</sup> .	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 vac- uum 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-tempera- ture water jets	Water projected at high pressure and high temperature against the enclosure from any direction shall not have harmful effects

<sup>1)</sup> 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".

# List of model numbers

Model No.	Page	Model No.	Page	Model No.	Page
1003.000	39	1305.000	42	1560.800	132
1005.000	39	1338.000	32	1561.000	103
1006.000	40	1339.000	33	1561.800	132
1007.000	41	1350.000	33	1562.000	103
1008.000	40	1360.000	34	1562.800	132
1009.000	41	1376.000	34	1563.000	104
1010.000	41	1380.000	32	1563.800	132
1011.000	40	1500.000	99	1564.000	103
1012.000	41	1501.000	99	1564.800	132
1013.000	41	1502.000	99	1565.000	103
1014.000	42	1503.000	99	1565.800	132
1015.000	40	1504.000	99	1566.000	104
1016.000	42	1505.000	99	1566.800	132
1017.000	42	1506.000	100	1567.000	104
1018.000	42	1507.000	99	1567.800	132
1019.000	42	1508.000	99	1568.000	104
1031.000	32	1509.000	100	1568.800	132
1033.000	31	1510.000	100	1569.000	104
1034.000	31	1511.000	99	1569.800	132
1037.000	32	1512.000	100	1570.800	132
1038.000	32	1513.000	100	1570.810	132
1039.000	33	1514.000	98	1571.800	132
1045.000	32	1515.000	98	1572.800	132
1050.000	33	1516.000	98	1573.800	132
1054.000	34	1517.000	98	1574.000	113
1055.000	36	1518.000	98	1574.800	132
1057.000	33	1527.000	100	1575.000	113
1058.000	34	1528.000	98	1575.800	132
1059.000	34	1529.000	99	1576.000	113
1060.000	33	1530.000	101	1576.800	132
1073.000	35	1531.000	101	1577.000	110
1076.000	34	1532.000	101	1578.000	110
1077.000	35	1533.000	101	1579.000	110
1090.000	35	1535.000	101	1581.200	134
1091.000	35	1536.000	101	1583.000	12
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