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Faster – better – everywhere.

Enclosures, compact housings and accessories

for Bayerische Motoren Werke AG (BMW), Best Practice 3.0



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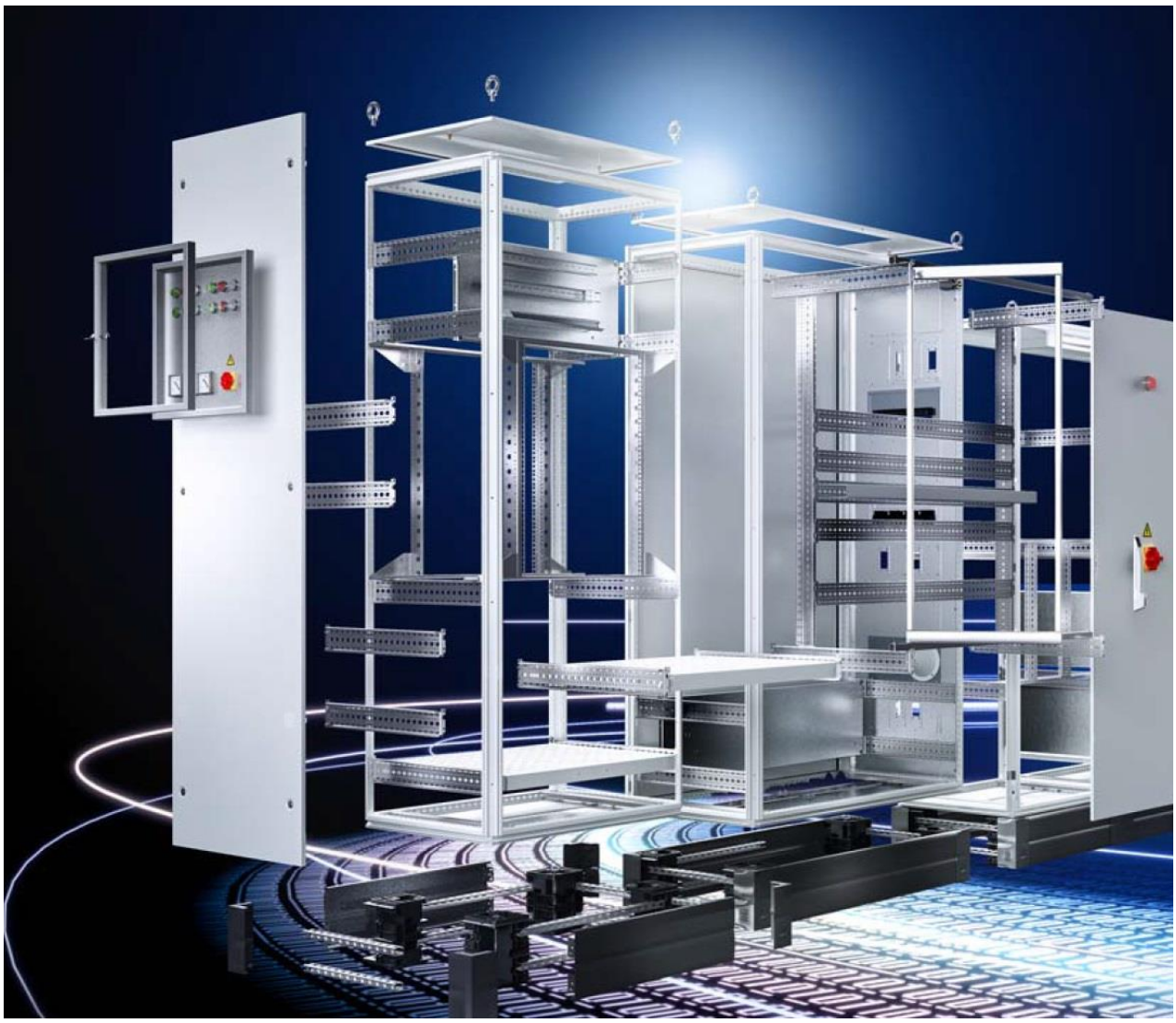
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Baying enclosure system VX25



Housing:
Symmetrical rolled frame construction, consisting of solid and profiled hollow sections with 25 mm pattern of holes.
Frame with integrated M6 blind-rivet nuts for the protection category-conform fastening of fitting component to the section.
All sections have chamfered edges.
Horizontal sections with additional channel above the PU foam seal.
Seamless, identical sections with two mounting levels accessible internally and externally for space-saving and fast interior installation.
Square holes on all sides for the deployment of captive nuts and bolts up to M8.
Welded base frame with integrated base strengthening for fastening to the underside of the enclosure inner side, 3-part gland plate, removable and replaceable, mounted.
Bayable on all sides.
Maximum loading 15000 N.

Door:

- With foamed-in PU seal, with removable rectangular tubular frame with holes in 25 mm pitch pattern and integrated hammer-head cut-outs for cable clamping
- With rod lock latchable in four positions, hinges with screw-fastened limit stops, door hinges may be swapped to opposite side, with non-detachable hinge pins, 17 mm floor clearance

Rear panel and roof plate:

- With foamed-in PU seal
- Rear panel and roof plate screw-fastened, and removable
- Rear panel with positioning aid
- Roof with M12 roof fastening bolts

Mounting plate:

- C-folds at the sides, depth-adjustable on a 25 mm pitch pattern via integrated plastic slide pieces and reusable mounting rails
- Including mounting pattern to simplify the positioning of components

Panels / potential equalisation:

- Roof, door, rear panel, gland plates included in the Supply includes
- Side panels are available separately as accessories
- Rear panel, roof plates and gland plates are connected conductive with the frame (automatic potential equalisation) in accordance with DIN 62 208 and prepared for the additional fastening of earth straps

QR code:

- QR code printed on the roof, door, mounting plate, rear panel and rating plate for the unique identification and for easy access to relevant product information and documentation, as well as for the unambiguous tracking of the individual parts

Protection category:

- Protection category in accordance with IEC 60 529 (with mounted side panels): IP 55
- Protection category in accordance with UL 508A: Type 12
- Impact protection in accordance with IEC 62 262: IK10

Material:

- Enclosure frame, roof plate, rear panel and gland plates:
  - 1.5 mm sheet steel
- 2 mm sheet steel doors

Surface finish:

- Enclosure frame dipcoat-primed
- Panels dipcoat-primed and powder-coated, textured
- Gland plates zinc-plated

Colour:

- Enclosure RAL 7035, pale grey.

Width (mm)	600	800	800	1200
Height (mm)	1800	1800	1800	1800
Depth (mm)	500	500	500	500
Model No.	**8685.000**	**8880.000**	**8885.000**	**8285.000**
Doors	1	2	1	2
Weight (kg)	93.8	122.5	115.8	173.3
Mounting plate (mm)	499 x 1696	699 x 1696	699 x 1696	1099 x 1696

Width (mm)	600	800	800	1200
Height (mm)	1800	1800	1800	1800
Depth (mm)	600	600	600	600
Model No.	**8686.000**	**8881.000**	**8886.000**	**8286.000**
Doors	1	2	1	2
Weight (kg)	96.8	120.3	116.0	179.9
Mounting plate (mm)	499 x 1696	699 x 1696	699 x 1696	1099 x 1696

Width (mm)	600	800	1000	1200
Height (mm)	2000	2000	2000	2000
Depth (mm)	500	500	500	500
Model No.	**8605.000**	**8805.000**	**8005.000**	**8205.000**
Doors	1	1	2	2
Weight (kg)	101.3	126.3	157.1	190.6
Mounting plate (mm)	499 x 1896	699 x 1896	899 x 1896	1099 x 1896

Width (mm)	600	800	1000	1200
Height (mm)	2000	2000	2000	2000
Depth (mm)	600	600	600	600
Model No.	**8606.000**	**8806.000**	**8006.000**	**8206.000**
Doors	1	1	2	2
Weight (kg)	104.0	130.5	161.2	194.6
Mounting plate (mm)	499 x 1896	699 x 1896	899 x 1896	1099 x 1896

Enclosures TMO



TMO enclosures based on the Baying enclosure system VX25
for technology mounting, as described starting at page 4

Including the following modifications:

Front:

- Door(s) with fitted 8618.330 180° hinges
- Door(s) with fitted 8618.250 comfort handle for semi-cylinder, incl. fitted 7993.200 adapter kit for double-bit lock insert

Base/plinth:

- Base/plinth height: 200 mm, consisting of corner pieces and 8660.02X base/plinth trims front and rear (front base/plinth trims 2 x 100 mm high, rear base/plinth trim 1 x 200 mm high) and 8660.043 base/plinth trims at the sides

Interior installation:

- With zinc-plated mounting plate, fitted at the rearmost position in the last pattern hole
- Top front with 2500.220 LED system light, 24 V, with 2500.410 power supply and fitted 2500.460 door position switch

Width (mm)	600	800	1200
Height (mm)	2000 + 200	2000 + 200	2000 + 200
Depth (mm)	600	600	600
Basic	8606.000	8806.000	8206.000
Order designation	VX 8606 BMW / KA-01	VX 8806 BMW / KA-01	VX 8206 BMW / KA-01
Model No.	**7993.126**	**7993.128**	**7993.122**
Mounting plate width (mm)	499	699	1099
Mounting plate height (mm)	1896	1896	1896
Weight (kg)	109.0	136.3	202.2
Door(s)	1	1	2

Integrated parts:

Fitted on/in the enclosure	**7993.126**	**7993.128**	**7993.120**	**7993.122**
180° hinges	8618.330	8618.330	8618.330	8618.330
Comfort handle	8618.250	8618.250	8618.250	8618.250
Double-bit adapter kit	7993.200	7993.200	7993.200	7993.200
Base/plinth corner piece / trims	8660.022	8660.023	8660.024	8660.025
Base/plinth trims sides	8660.043	8660.043	8660.043	8660.043
LED system light	2500.220	2500.220	2500.220	2500.220
Power supply	2500.410	2500.410	2500.410	2500.410
Door-operated switch	2500.460	2500.460	2500.460	2500.460

CE power supply enclosures TKB



CE power supply enclosures based on the Baying enclosure system VX25
for technology mounting, as described starting at page 4

Including the following modifications:

Front:

- Double doors with mounted 180° hinges
- Right door with fitted comfort handle and adapter kit with double-bit insert
- In the right door with a fitted wiring plan pocket, distance from lower edge of the door to upper edge of wiring plan pocket 437 mm

Sides:

- Side panels mounted right and left

Base:

- the base frame is open, without gland plates

Base/plinth:

- Base/plinth height: 200 mm, consisting of 8660.02X corner pieces and two base/plinth trims 100 mm high in front and three base/plinth trims 200 mm high on the right, left and rear, base/plinth spray-finished RAL 9005

Interior installation:

- Without mounting plate
- Top front with 2500.220 LED system light, 24 V, with 2500.410 power supply and fitted 2500.460 door-operated switch

Earthing:

- The doors are connected to the frame at the top with 2412.316 earthing straps

Supplied loose:

- 1 pc(s). cable clamp rail 8619.410
- 2 pc(s) bracket / spacer 4199.000

Width (mm)	800	1200
Height (mm)	2000 + 200	2000 + 200
Depth (mm)	600	600
Basic	8806.000	8206.000
Order designation	VX 8806 BMW-CE / 7035	VX 8206 BMW-CE / 7035
Model No.	**7993.164**	**7993.165**

Integrated parts:

Fitted on/in the enclosure	**7993.164**	**7993.165**
180° hinges	8618.330	8618.330
Comfort handle	8618.250	8618.250
Double-bit adapter kit	7993.200	7993.200
Wiring plan pocket	4114.000	4116.000
Side panels	8106.245	8106.245
Base/plinth corner piece	8660.023	8660.025
Side base/plinth trims	8660.043	8660.043
LED system light	2500.220	2500.220
Power supply	2500.410	2500.410
Door-operated switch	2500.460	2500.460
Earthing straps	2412.316	2412.316
Cable clamp rail	8619.410	8619.410
Bracket / spacer	4199.000	4199.000

Compact enclosures AX



Housing:

- Sturdy 1.25 or 1.5 mm sheet steel construction, folded from a single piece and welded, with seamless protection channel at the door opening
- Rear panel with recessed holes for wall-mounting bracket
- Housing floor with sheet steel gland plates

Doors:

- 1.5 mm or 2 mm sheet steel, supported, with foamed-in seal, vertical perforated mounting strip on both sides, screw-fastened hinges
- Changing between right and left hinges possible for single-door housings
- Cam locks with double-bit insert in accordance with DIN 43668

Mounting plate:

- 2.0 mm or 2.5 mm sheet steel with system punchings with depth-adjustable studs

Material:

- Housing: Sheet steel
- Door: Sheet steel, seamless Foamed-in PU seal
- Mounting plate: Zinc-plated

Surface finish:

- Housing and door: Dipcoat-primed, exterior powder-coated, textured paint

Colour:

- RAL 7035 light grey

Width (mm)	300	380	380	380	400	500
Height (mm)	300	300	380	600	500	500
Depth (mm)	210	210	210	210	210	210
Model No.	**1033.000**	**1031.000**	**1380.000**	**1038.000**	**1045.000**	**1050.000**
Mounting plate width (mm)	250	330	330	330	350	450
Mounting plate height (mm)	275	275	355	575	475	475
Number of locks	1	1	1	2	2	2
Protection category in accordance with IEC 60 529	IP66	IP66	IP66	IP66	IP66	IP66
Weight (kg)	7.0	7.5	9.8	15.6	13.0	16.8

Width (mm)	500	600	600	600	600	600
Height (mm)	700	380	600	600	600	760
Depth (mm)	250	210	210	250	350	210
Model No.	**1057.000**	**1039.000**	**1060.000**	**1054.000**	**1360.000**	**1076.000**
Mounting plate width (mm)	450	550	550	550	550	550
Mounting plate height (mm)	675	355	575	575	575	735
Number of locks	2	1	2	2	2	2
Protection category in accordance with IEC 60 529	IP66	IP66	IP66	IP66	IP66	IP66
Weight (kg)	31.2	15.4	22.8	24.8	28.4	32.1

Width (mm)	600	600	760	760	800	800
Height (mm)	760	800	760	760	1000	1200
Depth (mm)	350	250	210	300	300	300
Model No.	**1376.000**	**1058.000**	**1077.000**	**1073.000**	**1180.000**	**1280.000**
Mounting plate width (mm)	550	545	705	705	745	745
Mounting plate height (mm)	735	775	735	735	975	1175
Number of locks	2	2	2	2	2	1*
Protection category in accordance with IEC 60 529	IP66	IP66	IP66	IP66	IP66	IP66
Weight (kg)	36.0	33.6	40.0	44.5	57.0	70.0

Width (mm)	1000	600	800
Height (mm)	1000	800	1200
Depth (mm)	300	400	400
Model No.	**1110.000**	**1059.000**	**1281.000**
Mounting plate width (mm)	945	545	745
Mounting plate height (mm)	975	775	1175
Number of locks	2	2	1*
Protection category in accordance with IEC 60 529	IP55	IP66	IP66
Weight (kg)	71.0	39.0	71.0

* = 3-point locking system

Bus enclosures KX



Housing:

- Sturdy 1.25 sheet steel construction, folded from a single piece and welded, with seamless protection channel at the door opening
- Rear panel with recessed holes for wall-mounting bracket

Cover:

- 1.25 mm sheet steel, supported, with foamed-in seal and screw-fastened hinges, 180° opening angle
- Cut-out with polycarbonate viewing panel glued-on at the rear, 4 mm thick

Material:
- Housing: Sheet steel
- Cover: Sheet steel, seamless foamed-in PU seal

Surface finish:
- Housing and cover: Dipcoat-primed, exterior powder-coated, textured paint

Colour:
- RAL 7035 light grey

Protection category in accordance with IEC 60 529:
- IP 65

Including the following modifications:

Cover:

- Cut-out with viewing panel glued-on at the rear is offset by 10.0 mm off-center towards the hinge side
- Closed by cam locks no. 371380 with integrated double-bit lock inserts 2466.000

Width (mm)	400	600	800
Height (mm)	300	300	300
Depth (mm)	155	155	155
Model No.	**1611.100**	**1612.100**	**1613.100**
Number of cam locks	1	2	2
Viewing panel dimensions (mm)	287.5 x 190.5	487.5 x 190.5	687.5 x 190.5
Weight (kg)	7.0	9.5	13.1

E-Boxes KX



Housing:

- Sturdy 1.25 or 1.38 mm sheet steel construction, folded from a single piece and welded, with seamless protection channel at the door opening
- Rear panel with recessed holes for wall-mounting bracket

Door:

- 1.25 mm sheet steel, supported, with foamed-in seal and screw-fastened hinges, 180° opening angle, cam lock with double-bit insert in accordance with DIN 43668

Mounting plate:

- 2 or 2.5 mm sheet steel, zinc-plated

Material:
- Housing: Sheet steel
- Door: Sheet steel, seamless Foamed-in PU seal
- Mounting plate: Zinc-plated

Surface finish:
- Housing and door: Dipcoat primed exterior powder-coated, textured paint

Colour:
- RAL 7035 light grey

Protection category in accordance with IEC 60 529:
- IP 66

Width (mm)	150	200	200	300	200	380
Height (mm)	150	200	300	800	300	300
Depth (mm)	120	120	120	155	155	155
Model No.	**1553.000**	**1549.000**	**1554.000**	**1579.000**	**1574.000**	**1576.000**
Mounting plate width (mm)	125	175	175	275	175	365
Mounting plate height (mm)	135	185	285	785	285	275
Number of locks	1	1	1	2	1	1
Weight (kg)	2.0	2.8	3.6	13.2	4.5	7.5

CA / CE Floor unit TKB



T CA / CE Floor unit as 24V or 400V distributor housing for motor vehicle body construction technology,
basic AX, as described starting at page 11.

Including the following modifications:

Door:

- door with a fitted 2435.100 comfort handle inclusive a 2466.000 double-bit insert

Roof:

- at the rear with four mounting holes for a support arm system, covered with sealing plugs
- inside with reinforcement plate and four M6 rivet nuts under the hole pattern of the roof plate

Base:

- base with cut-out for cable entry, covered with a divided gland plate with brush strips

Base/plinth:

- Base/plinth height: 200 mm, consisting of corner pieces and 2830.082 base/plinth trims front and rear, front base/plinth trims 2 x 100 mm high, rear base/plinth trim 1 x 200 mm high and two 2830.420 base/plinth trims 200 mm high on the right and left, base/plinth spray-finished RAL 9005

Interior installation:

- CE floor unit with zinc-plated mounting plate
- CA floor unit without mounting plate

Earthing:

- the door is connected to the lower earthing point of the enclosure by a 2412.316 earthing strip
- the reinforcement plate of the roof is connected to the upper earthing point of the enclosure by a 2412.316 earthing strip
- in the CE floor unit another 2412.316 earthing strip is attached from the earthing point of the reinforcement plate to the mounting plate
- in the CA floor unit also a 2412.316 earthing strip is attached to the earthing point of the reinforcement plate for mounting on the Lütze frame by the customer

Supplied loose:

- the following items are loosely supplied with the CA floor unit:
  - 1 pc(s) 2500.220 LED system light
  - 1 pc(s) 2500.410 Connection cable (power supply for LED system light)
  - 1 pc(s) 2500.460 Door position switch
  - 1 pc(s) 4597.000 Mounting bracket (for the attachment of the door position switch)
- There are no loose items enclosed with the CE floor unit:

Version:	**CA floor unit**	**CE floor unit**
Use	24V distributor	400V distributor
Dimensions (wxhxd) mm	800 x 900 + 200 x 400	
Mounting plate	-	■
LED System light	■	-
Colour	RAL 7035	
Model No.	**7993.175**	**7993.176**

Fitted on/in the enclosure	**7993.175**	**7993.176**
Comfort handle	2435.100	2435.100
Double-bit insert	2466.000	2466.000
Base/plinth corner piece	2830.082	2830.082
Side base/plinth trims	2830.420	2830.420
Earthing strip	2412.316	2412.316
LED system light (loose)	2500.220	-
Supply (loose)	2500.410	-
Door position switch (loose)	2500.460	-
Mounting bracket (loose)	4597.000	

Accessories for the VX25 enclosure system



Side panels, screw-fastened

- Time-saving installation with clip-in side-panel holder
- Automatic potential equalisation and increased EMC protection provided by panel holder with inside contact elements
- Straightforward height and depth positioning thanks to location aid
- One-person installation
- Earthing bolts with large, paint-free contact surface for optimum contact

Material:
- Sheet steel, 1.5 mm

Surface finish:
- Dipcoat primed, exterior powder-coated

Colour:
- RAL 7035

Protection category in accordance with IEC 60 529:
- IP 55

Packs of:
- 2 pc(s)

Supply includes:
- Assembly parts

For enclosure height (mm):	For enclosure depth (mm):	**Model No.:**
1800	500	**8185.245**
1800	600	**8186.245**
2000	500	**8105.245**
2000	600	**8106.245**





Base/plinth corner pieces with trims

Front/rear

Heavy-duty base/plinth corner pieces with formed self-positioning to the enclosure, deployable with or without base/plinth trims depending on the application.

Note:

200 mm high base/plinth corner pieces are provided with one 200 mm base/plinth trim and two 100 mm base/plinth trims.

Material:
- Sheet steel

Surface finish:
- Spray-finished

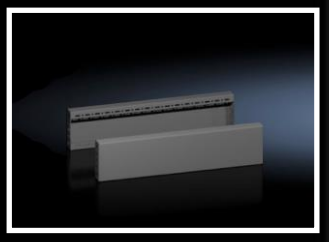
Colour:
- RAL 9005

Packs of:
- 1 set

Supply includes:
- Assembly parts

For enclosure width (mm):	Height (mm):	**Model No.:**
600	100	**8660.002**
800	100	**8660.003**
1000	100	**8660.004**
1200	100	**8660.005**
600	200	**8660.022**
800	200	**8660.023**
1000	200	**8660.024**
1200	200	**8660.025**

Accessories for the VX25 enclosure system



Side base/plinth trims

For lateral closure of a base/plinth unit and for additional stability, or for the interior installation of bayed base/plinths. Either one 200 mm high or two 100 mm high trims can be fitted on 200 mm high bases/plinths.

Material:
- Sheet steel

Surface finish:
- Spray-finished

Colour:
- RAL 9005

Packs of:
- 2 pc(s)

Supply includes:
- Assembly parts

For enclosure depth (mm):	Height (mm):	**Model No.:**
500	100	**8660.032**
600	100	**8660.033**
500	200	**8660.042**
600	200	**8660.043**



VX comfort handle

As the handle does not take up any swing space, due to its folding technique, the door surface area can be optimally used for installed components. Simple installation, thanks to the snap-mounted handle system.

Material:
- Die-cast zinc

Colour:
- RAL 7035

Design:	**Model No.:**
For lock inserts	**8618.200**
For semi-cylinder	**8618.250**

Packs of:
- 1 pc(s)

Supply includes:
- Assembly parts



180° hinges

To extend the door opening angle to 180°. Can be installed without making any mechanical changes to the door. Suitable for door installations up to 900 N.

Material:
- Steel precision-casting

Surface finish:
- Spray-finished

Packs of:	**Model No.:**
4 pc(s)	**8618.330**

Colour:
- RAL 7035

Supply includes:
- Assembly parts

Double-bit adapter kit 7993.200

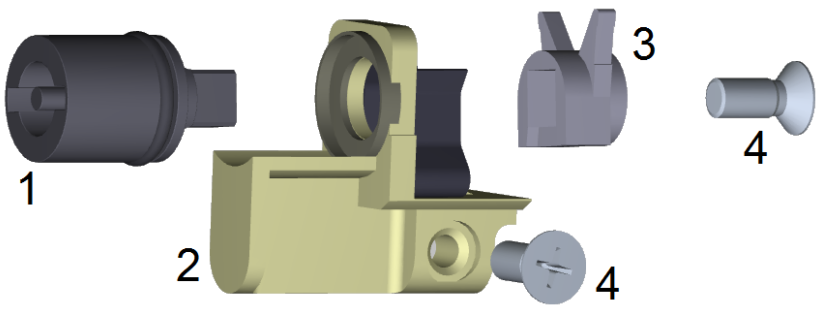


For mounting an enclosure lock with double-bit according to DIN 43668 in a Rittal locking system with preparation for semi-cylinder.
Suitable for 8618.250 VX comfort handle, 8611.070 VX SE comfort handle, 2435.100 AX comfort handle and 2537.100 AX mini comfort handle.

Material:
- Die-cast zinc
- Steel

Supply includes:

Nr.	Article	Model No. / Ident-No.	Quantity
1	Lock insert double-bit 3 mm	2466.000	1
2	Lock insert holder	265 540	1
3	Operating lever	214 362	1
4	Fastening screw	221 491	2



Accessories for the VX25 enclosure system



Wiring plan pocket

For fastening to the tubular door frame at any height.
Clearance depth 90 mm.

Material:
- Sheet steel, spray-finished

Colour:
- RAL 7035

Supply includes:
- Assembly parts

For door width (mm):	Model No.:
400	**4114.000**
500	**4115.000**
600	**4116.000**
800	**4118.000**

Packs of:
- 1 pc(s)



Utility lectern

Prepared for installation on the perforated door strip or on sufficiently large surfaces. Can be folded out quickly for servicing, with a large surface area, can be recessed to save space after use, surface area 413 / 613 x 400 mm.

Material:
- Sheet steel, spray-finished

Colour:
- RAL 7035

For door width (mm):	Model No.:
600	**4638.600**
800	**4638.800**

Packs of:
- 1 pc(s)

Supply includes:
- Assembly parts





Wiring plan lectern

For storage of wiring plans during trouble-shooting and maintenance work. The wiring plan lecterns can be bayed in accordance with the door width.
Installed on the tubular door frame.
Colour: Similar to RAL 7035. Packs of 1

Required/possible number of wiring plan lecterns:
- For door width 500 mm: Min. 1, max. 1.
- For door width 600 mm: Min. 2, max. 2.
- For door width 800 mm: Min. 2, max. 3.

Packs of:	Model No.:
1 pc(s)	**4120.000**

Material:
- Polypropylene

Colour:
- Similar to RAL 7035

Supply includes:
- Assembly parts

Accessories for the VX25 enclosure system



Keyboard drawer

For keyboards up to 430 mm wide and 250 mm deep with the front panel folded over.

Material:
- Housing: Sheet steel, spray-finished
- Front panel: Aluminium, natural anodised.

Packs of:	**Model No.:**
1 pc(s)	**7281.035**

Colour:
- RAL 7035

Supply includes:
- Assembly parts



M6 captive nuts

For fastening rack-mounted electronic equipment, 19" installed components and blanking plates to the mounting angles.
For deployment with section sheet thicknesses from 0.8 – 2.0 mm.
Without contact of the installed components with the 19″ section.

Packs of:	**Model No.:**
50 pc(s)	**2092.200**



Mounting plate infill

For the continuous mounting surface area in bayed combinations for the preferred position of the mounting plate.

Material:
- Sheet steel, zinc-plated

Surface finish:
- Zinc-plated

For enclosure height (mm):	**Model No.:**
1800	**4590.700**
2000	**4591.700**

Packs of:
- 1 pc(s)

Supply includes:
- Assembly parts



Divider panel for module plates

With cut-outs for installing module plates for plug connectors or for cable bushing.
Number of cut-outs: 10

Material:
- Sheet steel, 2.0 mm

Surface finish:
- Zinc-plated

Packs of:
- 1 pc(s)

Supply includes:
- Assembly parts

For enclosure height (mm):	For enclosure depth (mm):	**Model No.:**
1800	500	**8609.210**
1800	600	**8609.211**
2000	500	**8609.212**
2000	600	**8609.213**

Accessories for the VX25 enclosure system



Module plates for divider panel

Material:
- Sheet steel

Surface finish:
- Zinc-plated

Packs of:
1 pc(s)

Supply includes:
- Assembly parts



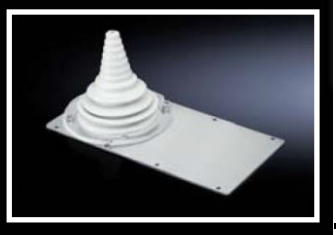
Solid
For sealing unused cut-outs. Easily machined for individual cut-outs.

Design:	Model No.:
Solid:	**8609.160**



For plug connectors
With 4 cut-outs to accommodate plug connectors.

Design:	Model No.:
16-pole	**8609.150**
24-pole	**8609.140**



With cable bushing
For the entry of pre-assembled cables. Sealed, routing is achieved via adjustable angle brackets with inserted foam cable clamp strip.
Fixed bracket, perforated, for cable clamping.

Design:	Model No.:
Bushing	**8609.170**

With cable grommet
For cables with diameter 10 to 65 mm. The flexible grommet adapts itself to the cable bending radius.

Design:	Model No.:
Cable grommet	**8609.390**



Cover plates

For plug connector cut-outs
For unused cut-outs.

Material:
- Sheet steel

Surface finish:
- Zinc-plated

Design:	Model No.:
16-pole	**2478.000**
24-pole	**2477.000**

Packs of:
- 20 pc(s)

Supply includes:
- Assembly parts

Accessories for the VX25 enclosure system



EMC gland plates

For shielded cables with max. ∅ 20 mm. Combined EMC/IP seal provides low-resistance contact between cable shield and gland plate.

Material:
- Sheet steel

Surface finish:
- Zinc-plated

For enclosure width (mm):	**Model No.:**
600	**8618.820**
800	**8618.821**
1000	**8618.822**
1200	**8618.823**

Packs of:
- 1 set

Supply includes:
- Assembly parts





Cable entry plates

Instead of segments of the standard divided gland plates.

Protection category in accordance with IEC 60 529:
- IP 55 when correctly installed

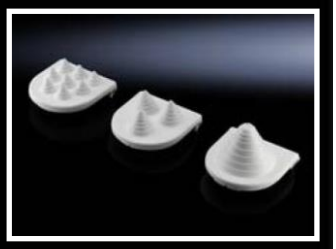
Material:
- Sheet steel

Surface finish:
- Zinc-plated

Supply includes:
- Assembly parts

For enclosure width (mm):	Packs of:	**Model No.:**
600	2 pc(s)	**8619.800**
800	2 pc(s)	**8619.801**
1000	4 pc(s)	**8619.802**
1200	4 pc(s)	**8619.803**

Accessories for the VX25 enclosure system



Cable entry grommets

In combination with the cable entry plate, a simple and fast sealing for cables introduced in the base area of the enclosures.

Protection category in accordance with IEC 60 529:
- IP 55 when correctly installed

Material:
- Main body: Polypropylene
- Grommet: Elastomer

Colour:
- Similar to RAL 7035

Max. number of cables:	Max. cable ∅ (mm):	Packs of:	**Model No.:**
8	13	25 pc(s)	**4316.000**
3	21	25 pc(s)	**4317.000**
1	47	25 pc(s)	**4318.000**



Connector grommet

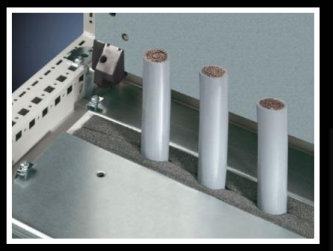
Suitable for cable diameters from 8 to 36 mm.

Protection category in accordance with IEC 60 529:
- IP 55 when correctly installed

Packs of:	**Model No.:**
10 pc(s)	**4311.000**

Material:
- Outer cover: Polypropylene with thermoplastic elastomer sheathing
- Seal: Cellular rubber

Colour:
- Similar to RAL 7035



Foam rubber cable clamp strip

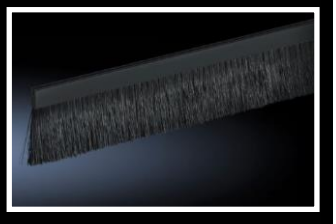
For sealing the cable entry between the gland plates. Particularly suitable for identical cable cross-sections.

Protection category in accordance with IEC 60 529:
- IP 55 when correctly installed

Packs of:	**Model No.:**
3 m	**2573.000**

Cross-section:
- 30 x 30 mm

Material:
- PU foam



Brush strip

For the customised installation of panels.
For metal thickness: 0.6 – 1.5 mm. Snap-on surface: 10 mm. Bristle length: 30 mm, plastic sheathing: 18 mm.
Maximum cut-out height: 38 mm.

Packs of:	**Model No.:**
2 m	**7072.200**

Accessories for the VX25 enclosure system



C rails 30/15

In accordance with EN 60 715.

Material:
- Sheet steel

Surface finish:
- Zinc-plated

Packs of:
- 6 pc(s)

For enclosure width (mm):	Model No.:
600	**4944.000**
800	**4945.000**
1000	**4946.000**
1200	**4947.000**

Supply includes:
- Assembly parts



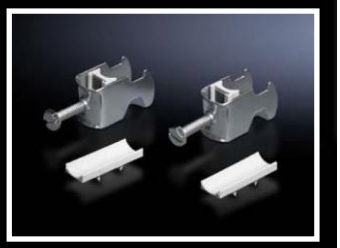
Bracket

for C rails.
For fastening cable clamp rails to the horizontal enclosure section.

Material:
- Die-cast zinc

Packs of:	Model No.:
6 pc(s)	**4199.000**

Supply includes:
- Assembly parts





Cable clamps

for C rails.
For fastening the cables to the cable clamp rails.

Material:
- Sheet steel

Surface finish:
- Zinc-plated

Packs of:
- 25 pc(s)

Supply includes:
- Plastic washers

For cable ∅ (mm)	Model No.:
6 – 14	**7077.000**
12 – 18	**7078.000**
18 – 22	**7097.000**
22 – 26	**7097.220**
26 – 30	**7097.260**
30 – 34	**7097.300**
34 – 38	**7097.340**
38 – 42	**7098.000**
42 – 56	**7097.100**
56 – 64	**7099.000**

LED light and accessories



LED light

Optimum illumination in the complete enclosure. The installation is performed directly in the system punchings, tool-free via a retaining hook system.
Straightforward and easy connection thanks to rotatable plug connectors.

Material:
- Plastic
- Aluminium

Colour:
Housing: RAL 7016

Light colour:
- 4000 K (neutral white)

Packs of:	**Model No.:**
1 pc(s)	**2500.220**

Power:
- 900 lumens

Length:
- 437 mm

Rated operating voltage:
- 24 V DC

Supply includes:
- Assembly bolts



Connection power

for LED system light, 2-pole.
For time-saving and straightforward connection of the lights.

Cable colour:
- Black

Packs of:	**Model No.:**
5 pc(s)	**2500.410**

Cable length:
- 3000 mm



Door-operated switch

for LED system light.
For time-saving and straightforward connection of the lights.

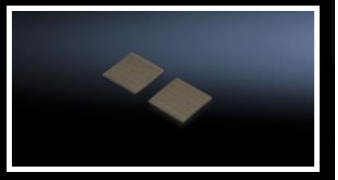
Cable colour:
- Black

Cable length:
- 800 mm

Packs of	**Model No.:**
1 pc(s)	**2500.460**

Rated operating voltage:
- 230 V AC / 24 V DC, 1 A

Supply includes:
- Assembly parts



Mounting kit magnet

For sticking onto the rear of s LED system light.

Packs of:	**Model No.:**
2 pc(s)	**2400.490**



Door-operated switch

For switching lights or climate-control components. Without connection cable.

Rated operating voltage:
- 240 V, 125 V, 24 V, 24 V (DC)

Packs of:	**Model No.:**
1 pc(s)	**4127.010**

Supply includes:
- Assembly parts

Accessories



Thermostat

Enclosure internal thermostat.
For controlling filter fans, roof fans, heaters and heat exchangers; but also as a signal encoder for monitoring the enclosure internal temperature.
Flexible installation on vertical or horizontal 35 mm support rail in accordance with EN 50 022 as well as snap fastening in the enclosure section or on the mounting plate.

Dimensions (WxHxD):
- 71 x 71 x 33.5 mm

Packs of:	**Model No.:**
1 pc(s)	**3110.000**

Colour:
RAL 7035

Setting range:
-+5 °C … +60 °C

Switching difference:
- Approx. 1 K, ± 0.8 K

Rated operating voltage:
- 24 V – 230 V, 1 ~,
  24 V – 60 V DC



Digital temperature display and thermostat

For installation in the enclosure door or panel. Three-digit, 7-segment display.
Can be switched between °C/°F.
Includes 1,800 mm long NTC sensor. Two relay outputs as change-over contact and normally open contact (maximum contact load 230 V, 6 A).
Freely selectable switching difference.

Installation depth:
- 100 mm

Protection category in accordance with IEC 60 529:
- IP 54

Packs of:	**Model No.:**
1 pc(s)	**3114.200**

Colour:
RAL 7035

Setting range:
-+5 °C … +55 °C

Rated operating voltage:
- 100 V – 230 V, 50/60 Hz,
  24 V – 60 V DC



Enclosure internal fan

To prevent hot-spots and to support the air routing of active enclosure climate-control components. Adjustable in two axes. Fastened to the VX25 frame section. Cascading Several fans possible using the quick-release clamping strip. Fully wired unit ready for connection with radial fan and lockable swivel device.

Air throughput (unimpeded air flow):
- 160 m³/h

Packs of	**Model No.:**
1 pc(s)	**3108.024**

Rated operating voltage:
- 24 V DC, 1 A

Supply includes:
- Assembly parts

Locks

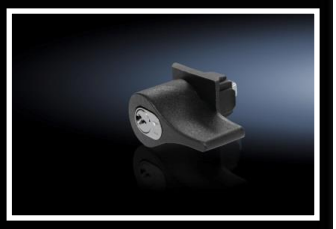


Plastic handle

For TKB TK technology case.
Without security cylinder insert,
including assembly parts and seal.

Packs of:	**Model No.:**
1 pc(s)	**2533.100**

Colour:
- Black



E1 plastic handle

For TKB TK technology case.
With integrated E1 lock,
including assembly parts and seal.

Packs of:	**Model No.:**
1 pc(s)	**2577.010**

Colour:
- Black



Security key

For 2577.010 plastic handle.
E1 lock.

Packs of	**Model No.:**
1 pc(s)	**2532.002**



Earthing strap

With press-fitted contact rings.
Earthing straps counteract the skin effect at high frequencies, whilst at the same time offer highly flexible connection capabilities.

Material:
- Copper, tin-plated

Cross-section (mm²):	Length (mm):	Packs of:	**Model No.:**
16	200	10 pc(s)	**2412.216**
25	200	10 pc(s)	**2412.225**
16	300	10 pc(s)	**2412.316**
25	300	10 pc(s)	**2412.325**

In addition to the items listed in this project book, additional items from the Rittal portfolio have been released by Bayerische Motoren Werke AG. All released items are listed in Bayerische Motoren Werke AG's @Article Data Manager.
The table below lists all Rittal items listed in the @Article Data Manager in numerical order.

Order No.:	Article
1031.000	Compact enclosure AX 380 x 300 x 210 mm
1033.000	Compact enclosure AX 300 x 300 x 210 mm
1038.000	Compact enclosure AX 380 x 600 x 210 mm
1039.000	Compact enclosure AX 600 x 380 x 210 mm
1045.000	Compact enclosure AX 400 x 500 x 210 mm
1050.000	Compact enclosure AX 500 x 500 x 210 mm
1054.000	Compact enclosure AX 600 x 600 x 250 mm
1057.000	Compact enclosure AX 500 x 700 x 250 mm
1058.000	Compact enclosure AX 600 x 800 x 250 mm
1059.000	Compact enclosure AX 600 x 800 x 400 mm
1060.000	Compact enclosure AX 600 x 600 x 210 mm
1073.000	Compact enclosure AX 760 x 760 x 300 mm
1076.000	Compact enclosure AX 600 x 760 x 210 mm
1077.000	Compact enclosure AX 760 x 760 x 210 mm
1091.000	Compact enclosure AX 600 x 1000 x 400 mm
1110.000	Compact enclosure AX 1000 x 1000 x 300 mm
1116.000	Compact enclosure AX 1200 x 1200 x 400 mm
1180.000	Compact enclosure AX 800 x 1000 x 300 mm
1181.000	Compact enclosure AX 800 x 1000 x 400 mm
1214.000	Compact enclosure AX 1000 x 1200 x 400 mm
1261.000	Compact enclosure AX 600 x 1200 x 400 mm
1280.000	Compact enclosure AX 800 x 1200 x 300 mm
1281.000	Compact enclosure AX 800 x 1200 x 400 mm
1350.000	Compact enclosure AX 500 x 500 x 300 mm
1360.000	Compact enclosure AX 600 x 600 x 350 mm
1376.000	Compact enclosure AX 600 x 760 x 350 mm
1380.000	Compact enclosure AX 380 x 380 x 210 mm
1549.000	E-Box KX-EB 200 x 200 x 120 mm
1553.000	E-Box KX-EB 150 x 150 x 120 mm
1554.000	E-Box KX-EB 200 x 300 x 120 mm
1574.000	E-Box KX-EB 200 x 300 x 155 mm
1576.000	E-Box KX-EB 380 x 300 x 155 mm
1579.000	E-Box KX-EB 300 x 800 x 155 mm

Order No.:	Article
1611.100	Bus enclosure KX-BG 400 x 300 x 155 mm, with cam lock and double-bit insert
1612.000	Bus enclosure KX-BG 600 x 300 x 155 mm, with mini cam locks
1612.100	Bus enclosure KX-BG 600 x 300 x 155 mm, with cam locks and double-bit insert
1613.000	Bus enclosure KX-BG 800 x 300 x 155 mm, with mini cam locks
1613.100	Bus enclosure KX-BG 800 x 300 x 155 mm, with cam locks and double-bit insert
2092.200	Captive nuts M6, without contact
2313.750	Support rail to EN 60 715, length 2000 mm
2365.000	Rail mounting bracket for support rails to EN 60 715
2394.300	Rail for interior installation, to fit enclosure AX, depth 300 mm
2394.400	Rail for interior installation, to fit enclosure AX, depth 400 mm
2412.216	Earthing braid 16 mm², length 200 mm
2412.225	Earthing braid 25 mm², length 200 mm
2412.310	Earthing braid 10 mm², length 300 mm
2412.316	Earthing braid 16 mm², length 300 mm
2412.325	Earthing braid 25 mm², length 300 mm
2435.100	Comfort handle AX
2449.010	180° hinges AX
2466.000	Lock insert 3 mm double bit
2500.220	LED system light, without socket, 24V (DC), 900 lm
2500.410	Connection cable for power supply, 2-pole for LED system light 24V (DC)
2500.460	Door-operated switch for LED system light 24V (DC)
2500.490	Mounting kit magnet for LED system light 24V (DC)
2532.002	Key E1
2533.100	Plastic handle AX without lock
2540.500	Cam lock E1
2573.000	Foam rubber cable clamp strip
2576.032	Plastic handle AX with lock E1
2830.062	Base/plinth trim panels AX, front and rear, width 600 mm, height, 200 mm
2830.082	Base/plinth trim panels AX, front and rear, width 800 mm, height, 200 mm
2830.101	Base/plinth trim panels AX, front and rear, width 1000 mm, height, 100 mm
2830.102	Base/plinth trim panels AX, front and rear, width 1000 mm, height, 200 mm
2830.122	Base/plinth trim panels AX, front and rear, width 1000 mm, height, 200 mm
2830.420	Base/plinth trim panels AX, sides, depth 400 mm, height, 200 mm
3031.000	Base isolator, height 40 mm, thread M10
3093.010	Cover, side for bus-mounting fuse bases
3108.024	Enclosure internal fan 24V (DC)
3110.000	Thermostat

Order No.:	Article
3114.200	Digital enclosure internal temperature display
4115.000	Wiring plan pocket, to fit door width 400 mm
4116.000	Wiring plan pocket, to fit door width 600 mm
4118.000	Wiring plan pocket, to fit door width 800 mm
4120.000	Wiring plan lectern
4127.010	Door-operated switch
4199.000	Bracket/spacer
4316.000	Cable entry grommets, max. cable diameter 13 mm
4317.000	Cable entry grommets, max. cable diameter 21 mm
4318.000	Cable entry grommets, max. cable diameter 47 mm
4591.700	Mounting plate infill to fit enclosure height 2000 mm
4638.600	Utility lectern to fit door width 600 mm
4638.800	Utility lectern to fit door width 800 mm
4944.000	C rail, length 555 mm
4945.000	C rail, length 755 mm
4946.000	C rail, length 955 mm
4947.000	C rail, length 1155 mm
5368.050	PC enclosure 600 x 1600 x 836 mm, with keyboard drawer
6002.000	Keyboard drawer 19", for keyboard and mouse
6212.110	Support section CP 120, open, length 1000 mm
6212.210	Support section CP 120, open, length 2000 mm
7281.035	Keyboard drawer 19", 2 U
7829.200	Central earthing point
7993.122	Bayed enclosure VX BMW spec. TMO 1200 x 2000 + 200 x 600 mm
7993.126	Bayed enclosure VX BMW spec. TMO 600 x 2000 + 200 x 600 mm
7993.128	Bayed enclosure VX BMW spec. TMO 800 x 2000 + 200 x 600 mm
7993.164	Bayed enclosure VX BMW spec. TKB 800 x 2000 + 200 x 600 mm
7993.165	Bayed enclosure VX BMW spec. TKB 1200 x 2000 + 200 x 600 mm
7993.175	Enclosure AX BMW spec. TKB, 24 V distributor, 800 x 900 + 200 x 400 mm
7993.176	Enclosure AX BMW spec. TKB, 400 V distributor, 800 x 900 + 200 x 400 mm
7993.200	Double-bit adaptor kit for Rittal lock system
7993.521	BMW Cascade Rack High
7993.522	BMW Cascade Rack Standard
8005.000	Bayed enclosure VX, 1000 x 2000 x 500 mm
8006.000	Bayed enclosure VX, 1000 x 2000 x 600 mm
8105.245	Side panel VX, 500 x 2000 mm
8106.245	Side panel VX, 600 x 2000 mm

Order No.:	Article
8185.245	Side panel VX, 500 x 1800 mm
8186.245	Side panel VX, 600 x 1800 mm
8205.000	Bayed enclosure VX, 1200 x 2000 x 500 mm
8206.000	Bayed enclosure VX, 1200 x 2000 x 600 mm
8285.000	Bayed enclosure VX, 1200 x 1800 x 500 mm
8286.000	Bayed enclosure VX, 1200 x 1800 x 600 mm
8605.000	Bayed enclosure VX, 600 x 2000 x 500 mm
8606.000	Bayed enclosure VX, 600 x 2000 x 600 mm
8609.201	Divider panel VX, 500 x 1800 mm
8609.202	Divider panel VX, 600 x 1800 mm
8609.204	Divider panel VX, 500 x 2000 mm
8609.205	Divider panel VX, 600 x 2000 mm
8609.210	Divider panel VX for module plates, 500 x 1800 mm
8609.211	Divider panel VX for module plates, 600 x 1800 mm
8609.212	Divider panel VX for module plates, 500 x 2000 mm
8609.213	Divider panel VX for module plates, 600 x 2000 mm
8611.045	Comfort handle TS8, with lock E1
8611.070	Comfort handle TS8, prepared for the installation of profile semi-cylinders
8612.410	Mounting plate for additional configuration options
8618.200	Comfort handle VX, for lock inserts
8618.240	Comfort handle VX, with lock E1
8618.250	Comfort handle VX, prepared for the installation of profile semi-cylinders
8618.330	180° hinges VX
8618.420	Ride-up roller VX
8618.820	EMC gland plate VX, width 600 mm
8618.821	EMC gland plate VX, width 800 mm
8618.822	EMC gland plate VX, width 1000 mm
8618.823	EMC gland plate VX, width 1200 mm
8619.800	Cable entry plate VX, width 600 mm
8619.801	Cable entry plate VX, width 800 mm
8619.802	Cable entry plate VX, width 1000 mm
8619.803	Cable entry plate VX, width 1200 mm
8660.002	Base/plinth trim panels VX, front and rear, width 600 mm, height, 100 mm
8660.003	Base/plinth trim panels VX, front and rear, width 800 mm, height, 100 mm
8660.005	Base/plinth trim panels VX, front and rear, width 1000 mm, height, 100 mm
8660.007	Base/plinth trim panels VX, front and rear, width 1200 mm, height, 100 mm
8660.022	Base/plinth trim panels VX, front and rear, width 600 mm, height, 200 mm

Order No.:	Article
8660.023	Base/plinth trim panels VX, front and rear, width 800 mm, height, 200 mm
8660.024	Base/plinth trim panels VX, front and rear, width 1000 mm, height, 200 mm
8660.025	Base/plinth trim panels VX, front and rear, width 2000 mm, height, 200 mm
8660.032	Base/plinth trim panels VX, sides, depth 500 mm, height, 100 mm
8660.033	Base/plinth trim panels VX, sides, depth 600 mm, height, 100 mm
8660.041	Base/plinth trim panels VX, sides, depth 400 mm, height, 200 mm
8660.042	Base/plinth trim panels VX, sides, depth 500 mm, height, 200 mm
8660.043	Base/plinth trim panels VX, sides, depth 600 mm, height, 200 mm
8685.000	Bayed enclosure VX, 600 x 1800 x 500 mm
8686.000	Bayed enclosure VX, 600 x 1800 x 600 mm
8800.080	Cable entry plate TS8, width 800 mm
8805.000	Bayed enclosure VX, 800 x 2000 x 500 mm
8806.000	Bayed enclosure VX, 800 x 2000 x 600 mm
8881.000	Bayed enclosure VX, 800 x 1800 x 600 mm, two-door
8885.000	Bayed enclosure VX, 800 x 1800 x 500 mm
8886.000	Bayed enclosure VX, 800 x 1800 x 600 mm, single-door

Changes

Version	Change	Date
1.0	New handbook created.	08/11/2019
1.1	AE, KL and BG housings replaced with AX and KX housings.	11/03/2020
1.2	CA / CE Floor units and distributor enclosure 7993.264 added	01/12/2020
1.2	Cable entry of the CE distributor enclosures revised	01/12/2020
1.3	Bus enclosures with double-bit cam locks	25/01/2021
1.4	Mounting bracket and earthing strips in CA and CE Floor units added	24/02/2021
1.5	Corrected position of wiring plan lecterns in CE power supply enclosures	01/04/2021
1.6	Order numbers for bus enclosures updated	04/10/2021
1.6	Mounting kit magnet for LED system light removed in CA floor unit	04/10/2021
1.7	TK technology case TKB removed	16/02/2022
1.8	Base/plinth trims at the sides of TMO enclosures added	13/05/2022
1.9	VX base/plinth system	13/12/2023
1.9	1000 mm wide TMO enclosure 7993.120 removed	13/12/2023
1.10	CE power supply enclosures 7993.264 and 7993.265 removed	02/05/2024
1.11	Base/plinth system of the CA / CE Floor units updated	22/07/2024
1.12	List of ADM articles added	20/03/2025
1.13	List of ADM articles revised	18/09/2025
1.14	Wiring plan lectern in the TKB enclosures removed	07/07/2026

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