AX. System perfection.

After more than 30 years, Rittal is revolutionising the field of plastic enclosures and complementing its AX series of sheet steel and stainless steel enclosures. With the plastic enclosure AX, Rittal has now combined the benefits of a sophisticated system technology with those of an extremely robust material to produce a unique enclosure series.

The new plastic enclosure AX stands for maximum simplification, speed and configuration freedom, while at the same time meeting the highest demands in terms of safety and robustness. Whether in the workshop or outdoors exposed to the elements – the plastic enclosure AX weathers all extremes.

The AX enclosure series defines the standards for Industry 4.0-compliant enclosure manufacture.
Enclosure
- 14 different enclosure variants, with or without viewing panel
- Symmetrical layout means the enclosure is easily rotated through 180°
- Double seal with an integral rain protection strip on the top and bottom edge of the door to protect the seal from dust and rainwater
- Fibreglass-reinforced plastic with a high level of UV resistance

Siting
- Wall mounting brackets are easily secured from the outside while retaining the UL approval
- The pole clamp may be screw-fastened directly into the external threaded inserts
- Ideally suited for outdoor applications

Mounting plate
- The mounting plate is easily screw-fastened onto the pre-assembled bolts from the front
- Simple earthing of the mounting plate, even retrospectively, using machined keyholes
- With pitch pattern markings for faster component positioning

Interior installation
- Numerous mounting bosses for individual interior installation
- Interior installation on a 25 mm pitch pattern with universal bracket for mounting punched sections and rails
- Direct door installation with support strips and punched sections with mounting flanges 14 x 39 mm, for use as an additional mounting surface
- Door-operated switches may be attached directly to the mounting bosses
Door installation
- Simple selection of enclosures and suitable accessories
- Automatic generation of CAD data and Eplan macros for the completed enclosure during the configuration process
- Direct ordering

Safety
- High level of safety for people and installed equipment
- UL F1 outdoor rating (UL 746C) thanks to 7 times higher UV resistance
- UL approval for industrial enclosures (508A)
- Fire protection corresponding to UL 94 V-0
- Smart enclosure design permits interior installation without impairment of the encapsulated space, i.e.
  - retaining the high protection category up to IP 66/NEMA 4X
  - retaining protection class II

Rittal Configuration System
- Simple selection of enclosures and suitable accessories
- Automatic generation of CAD data and Eplan macros for the completed enclosure during the configuration process
- Direct ordering

Engineering
- Rittal’s customers are supported by a wealth of conversion and planning tools in the automated production process and when working with a virtual prototype:
  - EPLAN Pro Panel data
  - 2D/3D CAD data
  - ecl@ss Advanced data
  - Technical documentation
  - Data for planners
  - “How-to” video
Plastic enclosures AX

Material:
- Enclosure and door: Fibreglass-reinforced unsaturated polyester
- Fire protection corresponding to UL 94 V-0
- Door: All-round foamed-in PU seal
- Mounting plate: Sheet steel

Surface finish:
- Enclosure and door: Dyed plastic with no after-treatment
- Mounting plate: Zinc-plated

Colour:
- Similar to RAL 7035

Protection class:
- II at 1000 V AC

Protection category IP to IEC 60 529:
- IP 66

Protection category NEMA:
- NEMA 4X

Supply includes:
- Enclosure with hinged door, of all-round solid construction, 3 mm double-bit lock
- Door hinged on the right, may be swapped to the left
- Mounting plate
- Twin seal on the top and bottom edges of the door as integral rain protection strip

Please note the product-specific scope of supply.

Note:
- Interior installation screws are required to secure components inside the enclosure
- Components such as punched sections with mounting flanges may be attached on a 25 mm pitch pattern using the universal bracket

Approvals:
- UL
- cUL

Further approvals can be found on the Internet.

without viewing window

<table>
<thead>
<tr>
<th>Width (B) mm</th>
<th>Height (H) mm</th>
<th>Depth (T) mm</th>
<th>Mounting plate width (F) mm</th>
<th>Mounting plate height (G) mm</th>
<th>Mounting plate thickness mm</th>
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<tbody>
<tr>
<td>250</td>
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Protection category NEMA:
- NEMA 4X

Supply includes:
- Enclosure with hinged door, of all-round solid construction, 3 mm double-bit lock
- Door hinged on the right, may be swapped to the left
- Mounting plate
- Twin seal on the top and bottom edges of the door as integral rain protection strip

Please note the product-specific scope of supply.

Note:
- Interior installation screws are required to secure components inside the enclosure
- Components such as punched sections with mounting flanges may be attached on a 25 mm pitch pattern using the universal bracket

Approvals:
- UL
- cUL

Further approvals can be found on the Internet.

without viewing window

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<td>800</td>
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</table>

Product-specific scope of supply

Cam lock
- 1
- 2
- 2
- 2
- 2
- 2
- 3

Accessories
Wall mounting bracket
- 4 pc(s). 1485.400 1485.400 1485.400 1485.400 1485.400 1485.400 1485.400 10
Pole clamp
- 2 pc(s). 2584.100 2584.100 2584.100 2584.100 2584.100 2584.100 2584.100 – 11
Universal bracket
Door stay
- 2 pc(s). 1485.100 1485.100 1485.100 1485.100 1485.100 1485.100 1485.100 1485.100 1485.100 12
LED system light
- 1 pc(s). 1485.600 1485.600 1485.600 1485.600 1485.600 1485.600 1485.600 1485.600 1485.600 10
Cable gland
- see page see page see page see page see page see page see page see page see page see page 13
Screws for interior installation
- 50 pc(s). 1485.300 1485.300 1485.300 1485.300 1485.300 1485.300 1485.300 1485.300 1485.300 11
Wiring plan pocket
- 1 pc(s). – – – – – – 4116.500 4116.500 4118.500 13
Punched section with mounting flange 23 x 64 mm, installation in the height
- 4 pc(s). – – 8617.110 8617.110 8617.130 8617.120 8617.120 8617.130 8617.130 8617.140 14
Punched section with mounting flange 23 x 64 mm, installation in the width
- – – 8617.110 8617.110 8617.130 8617.120 8617.120 8617.130 8617.130 8617.140 14
Support strips, installation in the door
- 20 pc(s). – – 4594.000 4594.000 4309.000 4309.000 4594.000 4594.000 4598.000 12
Punched section with mounting flange 14 x 39 mm, installation in the door
- 20 pc(s). – – 8619.700 8619.700 8619.710 8619.710 8619.720 8619.720 8619.730 12

Further technical information available on the Internet.
Plastic enclosures AX
Plastic enclosures AX

Material:
- Enclosure and door: Fibreglass-reinforced unsaturated polyester
- Fire protection corresponding to UL 94 V-0
- Door: All-round foamed-in PU seal
- Mounting plate: Sheet steel
- Viewing window: Polycarbonate

Surface finish:
- Enclosure and door: Dyed plastic with no after-treatment
- Mounting plate: Zinc-plated

Colour:
- Similar to RAL 7035

Protection class:
- II at 1000 V AC

Protection category IP to IEC 60 529:
- IP 56

Protection category NEMA:
- NEMA 12

Supply includes:
- Enclosure with hinged door with viewing window, of all-round solid construction, 3 mm double-bit lock
- Door hinged on the right, may be swipped to the left
- Mounting plate
- Twin seal on the top and bottom edges of the door as integral rain protection strip

Please note the product-specific scope of supply.

Note:
- Interior installation screws are required to secure components inside the enclosure
- Components such as punched sections with mounting flanges may be attached on a 25 mm pitch pattern using the universal bracket

Approvals:
- UL
- cUL

Further approvals can be found on the Internet.

with viewing window

<table>
<thead>
<tr>
<th>Width (B) mm</th>
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<table>
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<td>1 pc(s).</td>
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<td>1454.000</td>
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<td>15.2</td>
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<td>21.9</td>
<td>33.2</td>
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</tbody>
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Product-specific scope of supply

Cam lock 1 pc(s).

Notes:
- Interior installation screws are required to secure components inside the enclosure.
- Components such as punched sections with mounting flanges may be attached on a 25 mm pitch pattern using the universal bracket.

Approvals:
- UL
- cUL

Further approvals can be found on the Internet.
Plastic enclosures AX

Accessories

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

Protection category IP to IEC 60 529:
– IP 66 (in conjunction with AX plastic without viewing window)

Protection category NEMA:
– NEMA 4 (in conjunction with AX plastic without viewing window)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Packs of</th>
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<tr>
<td>1485.600</td>
<td>1 pc(s).</td>
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Lock inserts, type A
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
Flat 2307.000
6.5 mm triangular 2460.650

Lock and push-button inserts
Lock insert, lock no. 3524 E[1] 2467.000
Push-button insert 2468.000

Profile half-cylinders
to DIN 18 252[4]
9785.040
9785.042[4]

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

Wall mounting bracket
for AX plastic
For attachment to the wall, only possible from the outside of the enclosure.

Material:
– Fibreglass-reinforced polyamide[1]

Supply includes:
– Assembly parts for mounting on the enclosure

<table>
<thead>
<tr>
<th>Colour</th>
<th>Packs of</th>
<th>Model No.</th>
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<tbody>
<tr>
<td>RAL 7035</td>
<td>4 pc(s).</td>
<td>1485.400</td>
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<tr>
<td>RAL 9011</td>
<td>4 pc(s).</td>
<td>1485.500[3]</td>
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[1] With graphite additive for Ex applications

Section A – A
Pole clamp
for AX, KX, AX plastic, AX IT
For reliable, convenient fastening to round or square poles.
For pole diameter / size:
- Ø from 40 to 170 mm
- □ from 50 to 150 mm

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

Surface finish:
- Mounting angle, clamping section: Zinc-plated

Supply includes:
- 2 mounting angles, 600 mm long
- 4 clamping sections
- 2 clamping straps
- 4 clamping brackets
- Assembly parts

<table>
<thead>
<tr>
<th>Packs of</th>
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<tr>
<td>2 pc(s).</td>
<td>2584.100</td>
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Universal bracket
for AX plastic and Ex enclosure, plastic
For the interior installation on a 25 mm pitch pattern of
- Punched sections with mounting flanges
- Door rails
- Support strips

Material:
- Sheet steel, zinc-plated

Supply includes:
- Assembly parts

<table>
<thead>
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<td>1485.200</td>
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Screw for interior installation
for AX plastic
For mounting accessories on the mounting bosses of the enclosure frame.
Drive: Multi-tooth 25
Dimensions: 5 x 14 mm

<table>
<thead>
<tr>
<th>Type of screw</th>
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<tbody>
<tr>
<td>Pan head screw, self-tapping</td>
<td>50 pc(s)</td>
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</table>
Plastic enclosures AX

Accessories

Support strip
For attachment of
- Cable ducts
- Cable conduit holders
- Equipment installed on the door
- Cable clamping and attachment

4.5 mm diameter hole on a 25 mm DIN pitch pattern

Installation options:
- In AX plastic on mounting bosses in the door

Material:
- Sheet steel

Surface finish:
- Zinc-plated

Supply includes:
- Assembly parts

For door width mm | Distance between attachment points mm | Packs of | Model No.
---|---|---|---
400 | 275 | 20 pc(s) | 4594.000
500 | 375 | 20 pc(s) | 4309.000
600 | 475 | 20 pc(s) | 4596.000
800 | 675 | 20 pc(s) | 4598.000

+ Accessories:
- Screw for interior installation, see page 11

Punched section with mounting flange, 14 x 39 mm for door installation
For attachment of
- Cable ducts
- Cable conduit holders
- Equipment installed on the door, etc.

Installation options:
- In AX plastic on mounting bosses in the door

Material:
- Sheet steel

Surface finish:
- Zinc-plated

Supply includes:
- Assembly parts

For door 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
800 | 675 | 4 pc(s) | 8619.730

+ Accessories:
- Screw for interior installation, see page 11

Door stay AX
for AX plastic and Ex enclosure, plastic
To secure the door in the open position. May be fitted without machining the enclosure.

Supply includes:
- Assembly parts

Installation options:
- Installation directly at the bottom right/top left
- When swapping the door hinge to the opposite side, the prefitted door stay is easily removed and re-installed

For | Packs of | Model No.
---|---|---
Assembly | 2 pc(s) | 1485.100
Top/bottom | 2 pc(s) | 1485.100

Further technical information available on the Internet.
Plastic enclosures AX

Accessories

**Wiring plan pocket, sheet steel**
For fastening to the mounting bosses in the door of AX plastic enclosures.

**Colour:**
- RAL 7035

<table>
<thead>
<tr>
<th>D = 35 mm</th>
<th>To fit door width mm</th>
<th>Clearance opening mm</th>
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<td>4118.500</td>
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</table>

⚠️ Also required:
- Screw for interior installation, see page 11

**Plastic wiring plan pocket**
For adhering to surfaces.

**Material:**
- Polystyrene with self-adhesive fastening strips

**Colour:**
- Similar to RAL 7035

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<tr>
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<td>A3 landscape</td>
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<td>A4 portrait</td>
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<tr>
<td>A5 landscape</td>
<td>228</td>
<td>174</td>
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</table>

**Wiring plan pocket with transparent pouch**
With welded-on transparent pouch and self-adhesive backing.

<table>
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<th>For format</th>
<th>Model No.</th>
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<td>A4</td>
<td>2510.000</td>
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<tr>
<td>A3</td>
<td>2512.000</td>
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**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 for even tightening and strain relief to protect the cables

**Material:**
- Polyamide 6
- Seal: CR

**Colour:**
- RAL 7035

**Protection category IP to IEC 60 529:**
- IP 68 (5 bar, 30 min.)

**Approvals:**
- VDE, UL, cUL, CSA

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<td>M25 x 1.5</td>
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<td>M63 x 1.5</td>
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<td>2411.671</td>
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Plastic enclosures AX

Accessories

Punched section with mounting flange, 23 x 64 mm
For variable and individual interior installation.

Installation options:
- AX plastic
  - In the width and height of the enclosure in conjunction with universal bracket
Material:
- Sheet steel
Surface finish:
- Zinc-plated
Supply includes:
- Assembly parts

<table>
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<th>For enclosure width/height/depth mm</th>
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Also required:
- For AX plastic:
  Universal bracket 1485.200, see page 11

Mounting plate
Screw-fastened, large

Installation options:
- For attachment to mounting bosses in the door and on enclosure surfaces inside AX plastic enclosures
Material:
- Sheet steel
Surface finish:
- Zinc-plated
Supply includes:
- Assembly screws

<table>
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<td>4 pc(s).</td>
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Mounting plate
Screw-fastened, small

Installation options:
- For attachment to mounting bosses in the door and on enclosure surfaces inside AX plastic enclosures
Material:
- Sheet steel
Surface finish:
- Zinc-plated
Supply includes:
- Assembly screws

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<td>4532.000</td>
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Mounting bracket

Installation options:
- For attachment to mounting bosses in the door and on enclosure surfaces inside AX plastic enclosures
Material:
- Sheet steel
Surface finish:
- Zinc-plated
Supply includes:
- Assembly screws

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Further technical information available on the Internet.
LED system light

Material:
- Plastic
- Aluminium

Colour:
- Similar to RAL 7016

Protection class:
- II (all-insulated)

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<td>Accessory options</td>
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<tr>
<td>Mounting bracket for interior installation</td>
<td>6205.100</td>
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<tr>
<td>Door-operated switch</td>
<td>2500.460</td>
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<tr>
<td>Door-operated switch, UL</td>
<td>2500.470</td>
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<tr>
<td>Connection accessories</td>
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<tr>
<td>Infeed, 2-pole, UL</td>
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Mounting bracket
for interior installation
For installing the LED system light in plastic enclosures AX.

Material:
- Sheet steel

Surface finish:
- Zinc-plated

Supply includes:
- Assembly parts

<table>
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<th>Packs of</th>
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<td>4 pcs(s.)</td>
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Connection accessories
for LED system light
The following components can be used for time-saving, easy installation of the lights:

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<tbody>
<tr>
<td>Infeed, 2-pole, 100 – 240 V AC</td>
<td>-</td>
<td>-</td>
<td>3000</td>
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<tr>
<td>Infeed, 2-pole, 100 – 240 V AC</td>
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</table>

Door-operated switch
with connection cable for LED system light
Supply includes:
- Assembly parts

<table>
<thead>
<tr>
<th>ENEC</th>
<th>UL</th>
<th>Length mm</th>
<th>To fit</th>
<th>Packs of</th>
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<tr>
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<td>1 pc(s)</td>
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<tr>
<td>-</td>
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<td>24 V DC,</td>
<td>1 pc(s)</td>
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Milling centre Perforex BC

Perforex machining centres accelerate your throughput times when machining anything from the smallest enclosures and enclosure panels, right through to large enclosures. The drilling and milling centres in the Perforex BC series allow you to machine any material, including spray-finished sheet and stainless steel as well as aluminium, copper and the new AX plastic enclosure. The fully welded machine frame guarantees short throughput times with a consistently high machining quality plus fast, precise and reliable working.

- Convenient data import and further processing with interfaces to all common CAD systems (DXF import) or else direct data transfer from EPLAN Pro Panel
- Transfer of configuration data from the Rittal Configuration System (RiCS)
- Performance package for fast, low-vibration, noise-optimised milling
- Patented plate with integral swarf extraction system
- High-performance spindle including minimal quantity lubrication for drilling, milling and thread tapping
- Automated tool testing and changing
- DIN tools
- Pneumatic clamping device

Further information can be found at www.rittal.com/ras

Plastic enclosures AX
Maximum protection for your equipment

Thanks to its 7 times greater UV resistance – confirmed by an F1 rating to UL 746C – alongside further benefits such as integrated rain protection strips or stable stainless steel hinges, the robust plastic enclosure of the AX enclosure series is predestined for outdoor applications and use in the toughest environments.

Maritime industry
Extreme ambient conditions place particular demands on the material and surface properties of an enclosure. The plastic enclosure offers corrosion protection and is resistant to UV radiation, salt and salty air.

Wastewater management
Especially in this field, enclosures are exposed to various damaging influences, for example aggressive vapours which can attack the material. The plastic enclosure offers optimum protection – in the same way as against wind, weather and UV radiation.

Railway technology
Thanks to its robust material and stable construction, the plastic enclosure withstands aggressive environments, dampness and all arising pressure/suction forces.

Airports
The plastic enclosure withstands UV radiation, rain, snow and storm, and offers protection against flying debris such as tyre wear particles.
Plastic enclosure AX without viewing window

Plastic enclosure AX with viewing window

Centre lock only for 1432.000, 1479.000, 1480.000

not with 1432.000

not with 1432.000

Mounting bosses for interior installation

Internal view of door
Technical details

Model No. AX

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<th>B2</th>
<th>B3</th>
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</table>

B1 = Enclosure width (overall width)
B2 = Door width
B3 = Clearance width, enclosure opening
B4 = Clearance width between door reinforcement
B5 = Distance between door reinforcement attachment points
B6 = Width spacing of enclosure mounting points
B7 = Clear enclosure width between mounting points
B8 = Visible width for versions with viewing window
H1 = Enclosure height (overall height)
H2 = Door height
H3 = Clearance height, enclosure opening
H4 = Clearance height between door reinforcement
H5 = Distance between door reinforcement attachment points
H6 = Height spacing of enclosure mounting points
H7 = Clear enclosure height between mounting points
H8 = Visible height for versions with viewing window
T1 = Overall depth
T2 = Enclosure depth
T3 = Installation depth (distance from inside of door to mounting plate)
F1 = Mounting plate width
F2 = Centre-to-centre spacing of the attachment holes
G1 = Mounting plate height
G2 = Centre-to-centre spacing of the attachment holes
M = Mounting plate thickness

1. Mounting bosses on rear panel (not applicable for 1432.000, 1434.000)
2. Centre mounting points for mounting plate (not applicable for 1432.000, 1434.000, 1444.000, 1448.000)
3. Mounting bosses for interior installation
4. Preparation for direct mounting of a door-operated switch
5. Centre mounting points for mounting plate (not applicable for 1432.000, 1434.000, 1444.000, 1448.000)
Rittal – The System.

Faster – better – everywhere.

- Enclosures
- Power Distribution
- Climate Control
- IT Infrastructure
- Software & Services

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www.rittal.com/contact