Altech Corp.®

Your Source for Automation & Control Components

Quality System™
Quality Endorsed Company



Harsh Environment Capability





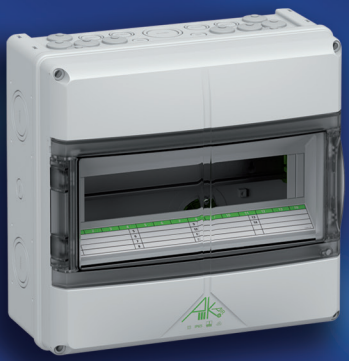


NEW
Cabinet Models





Unique Air Ventilation System



els spelsberg

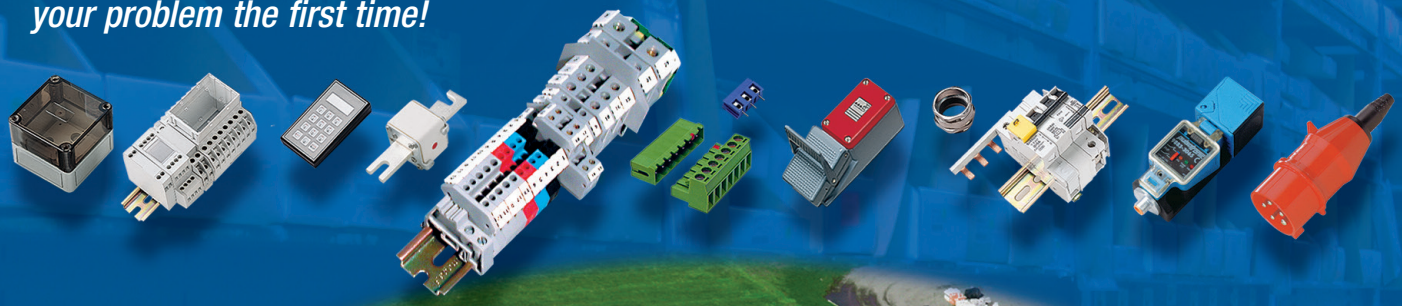
INDUSTRIAL ENCLOSURES

GEOS & AKIII Series

Altech Corp.®

Since 1984, Altech Corporation has grown to become a leading supplier of automation and industrial control components. Headquartered in Flemington, NJ, Altech has an experienced staff of engineering, manufacturing and sales personnel to provide the highest quality products with superior service. This is the Altech Commitment!

With experienced Product Engineers and Customer Service personnel, Altech provides solutions to your most pressing application challenges. All with one thought in mind - ***to ensure that we solve your problem the first time!***





Quality Commitment

Altech's control components meet diverse national and international standards such as UL, NEC, CSA, IEC, VDE and more. Altech provides superior customer service and delivery through Total Quality Management and Continuous Process Improvement. Altech is ISO 9001 approved. We perform these services with honesty and integrity and are committed to achieve these goals.



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GEOS

Tough • Flexible • Safe

GEOS - Industrial Outdoor Enclosure

High quality materials and an innovative design make the new GEOS series a universal solution and long lasting enclosure for indoor and outdoor applications. The UV and weather resistance of the high-quality polycarbonate and the new and innovative “Drain Protect” seal system guarantee optimal protection against most environmental influences, as well as rain, cold and heat. Even in tough conditions caused by aggressive atmospheres, oils, greases or mechanical stresses, you can rely on the GEOS enclosure. Certifications for the most varied applications give the user confidence at all times.

Tough
UV and weather resistant
Corrosion resistant
Temperature resistant -35° to 80°C
Rugged
High impact resistance - IK 09

Flexible
Modular component mounting system
Lightweight
Easily machined
Multiple mounting and closure options

Safe
Drain Protect seal system
Air ventilation element option
High protection rating IP67
Insulated protection
Safety agency approvals (cULus Type 4X)

c UL us
TYPE 4X
E254144

PROTECTION IP67



Tough

Flexible

Safe

UV and weather resistant
Corrosion resistant
Temperature resistant
Rugged
High impact resistance - IK 09
Modular Component Mounting System
Light weight
Easily Machined
Multiple Mounting and Closure Options
Drain Protect seal system
Dust, rain, snow, sprayed water
Air ventilation elements
High protection rating IP67
Insulated protection

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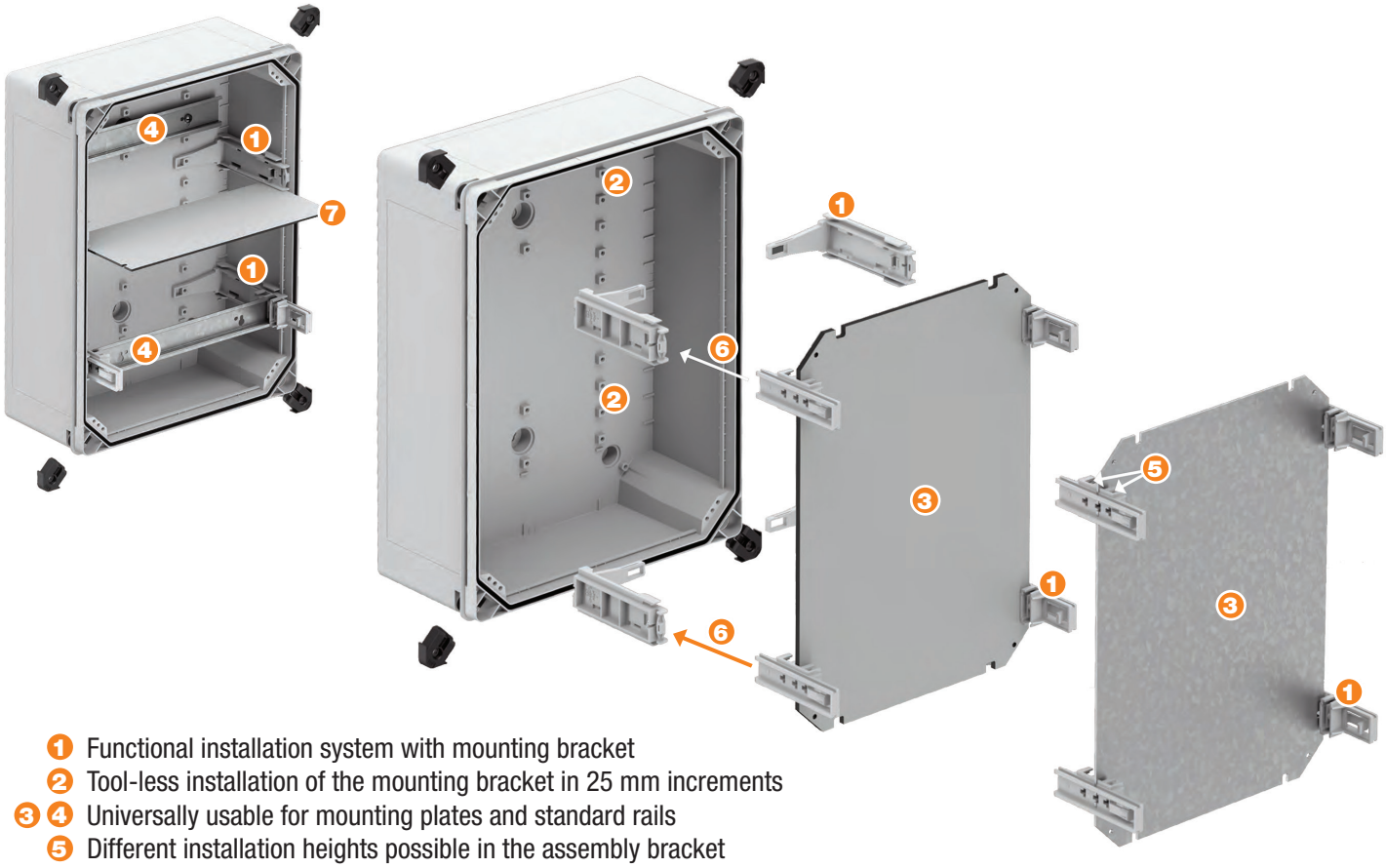
Now also in BLACK

Altech by els spelsberg

The GEOS Family ranging up to 15.75 x 19.69 x 8.9 in.



Modular Component Mounting Features

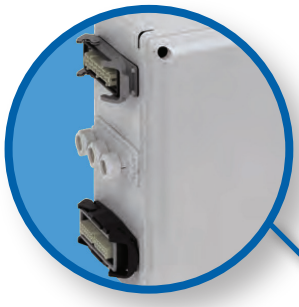


1. Functional installation system with mounting bracket
2. Tool-less installation of the mounting bracket in 25 mm increments
3. 4. Universally usable for mounting plates and standard rails
5. Different installation heights possible in the assembly bracket
6. Subsequent insertion of assembled modules
7. Partition walls

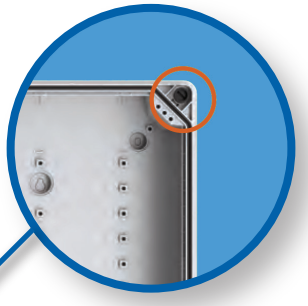
GEOS FEATURES



All round protection through "Drain Protect"
- Lasting protection against moisture
- Diverts moisture to backside of enclosure

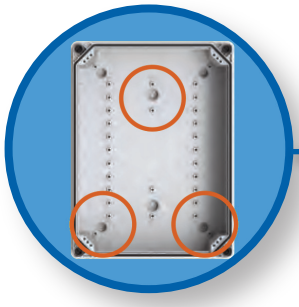


Optimized box dimensions
- Flexible assembly of heavy-duty industrial plug-in connectors.
- For universal use in different applications
- Sidewall will fit Bel Air M40 ventilation set.

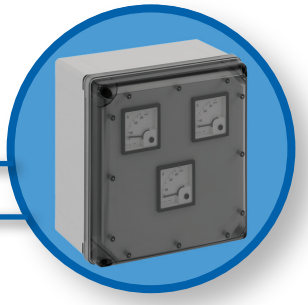


Mounting outside the sealing area
- UL-compliant installation
- Installation of assembled enclosure
- Maintains seal ratings



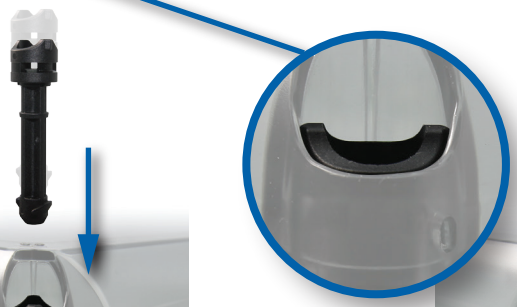


Three-point mounting
- Easy installation via keyhole mounting



Mounting standoffs in the cover or on top of the base
- Used for installing displays and controls behind the cover







1/4 turn screws
- Easy access via 1/4 turn screws as standard
- Conventional screws available, see page 13

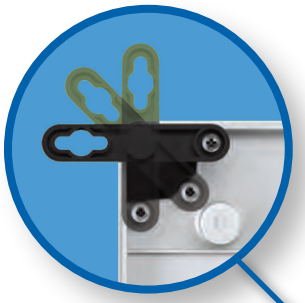
Screw position is visibly verifiable.



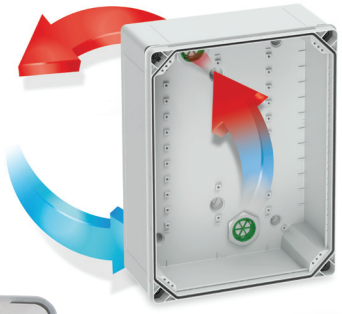
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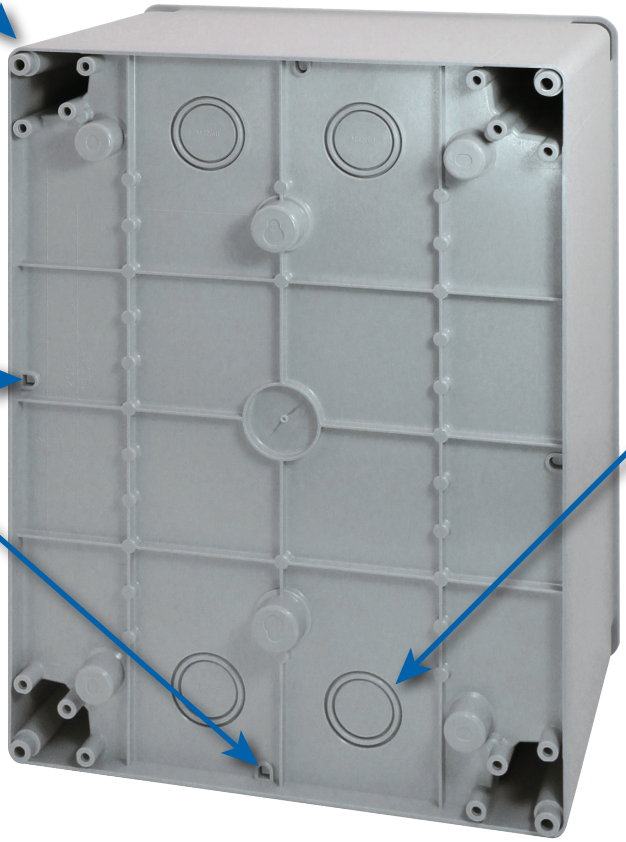
GEOS FEATURES

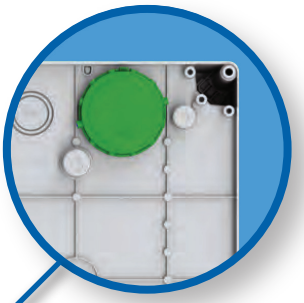
Altech by els spelsberg



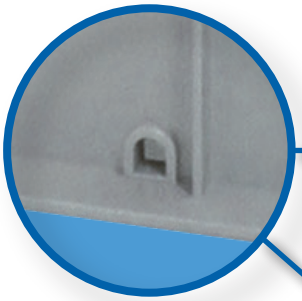
Optional external fastening
- Installation of assembled enclosures
- Available in 2 heights (10 mm or 40 mm)
- Clearance from wall for optimum laying of cables
- Installs at 0°, 45°, 90°



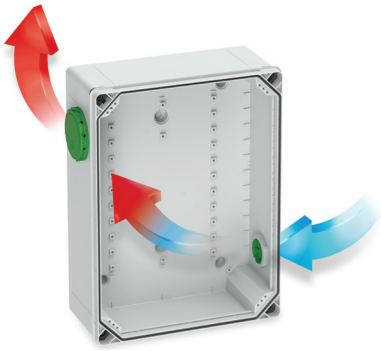




Protection against condensation
- Preparation for BEL Air M40 ventilation elements (IP65 / UL Type 3R)



Optional Drain Knockout
- Use of optional drain knockouts will reduce IP rating



The Ventilation Element

The BEL Air ventilation element prevents condensation, while maintaining a high IP65 protection rating. Any condensation occurring is transported out of the enclosure immediately via air exchange. The continuous and high rate of air exchange allows the interior air to mix constantly with the environmental air and transports the moisture outwards. Air exchange also takes place in environments with almost constant air humidity and temperature, as the air in the interior of the enclosure heats up due to the components. Due to the permanent pressure equalization, all the enclosure parts, such as the seal, are relieved of pressure permanently.



Mounting option BEL Air M40
- M32/40 knockouts in the base
  The wall clearance is suitable for installing BEL Air M40 ventilation elements at ground level
- Option of mounting on the sides of the enclosure (milling of sidewall holes required)

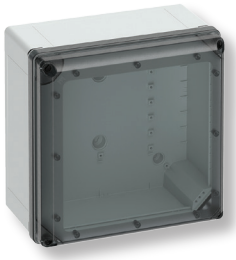
Advantages
- Prevention of condensation while maintaining a high IP 65 protection rating
- High air exchange rate
- 100% Pressure equalization
- 100% Protection against foreign bodies
- Maintenance-free

GEOS STANDARD

Now also in BLACK



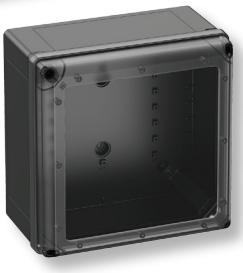
Cat No. 700-433
GEOS-L 3030-18-o
with grey cover



Cat No. 701-433
GEOS-L 3030-18-to
with transparent cover



Cat No. 742-433
GEOS-L 3030-18-o
black with black cover



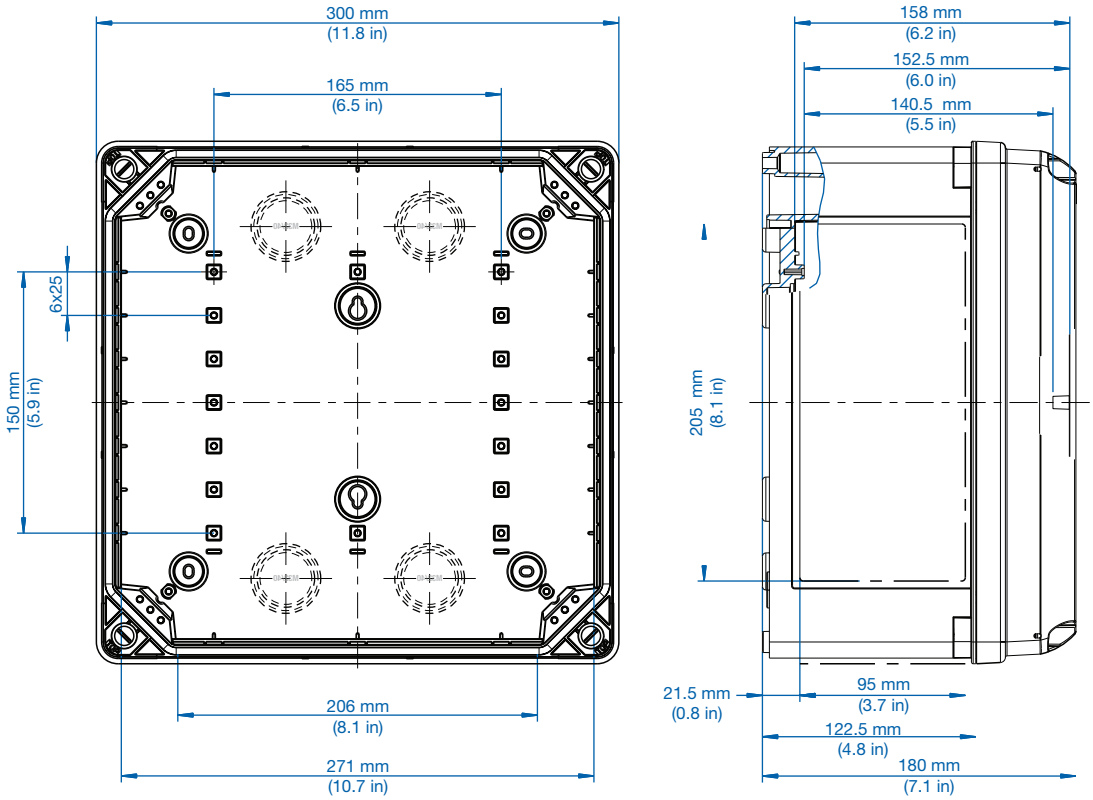
Cat No. 741-433
GEOS-L 3030-18-to
black with transparent cover

Description
Empty enclosure - Industrial Quality, suitable for installation in harsh environments and in unprotected outdoor areas.
Material: glass-fiber reinforced Polycarbonate
Color: gray (RAL 7035) or black (RAL 9005)

Size: 300 x 300 x 180 mm
11.8 x 11.8 x 7.1 in

c UL us E254144 UL TYPE 4X, 12K
UL EU
CE
PROTECTION IP67

Dimensions



See pages 19-24 for accessories.

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GEOS STANDARD

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Cat No. 700-733
GEOS-L 3030-22-o
with grey cover



Cat No. 701-733
GEOS-L 3030-22-to
with transparent cover



Cat No. 742-733
GEOS-L 3030-22-o/sw
black with black cover



Cat No. 741-733
GEOS-L 3030-22-to/sw
black with transparent cover

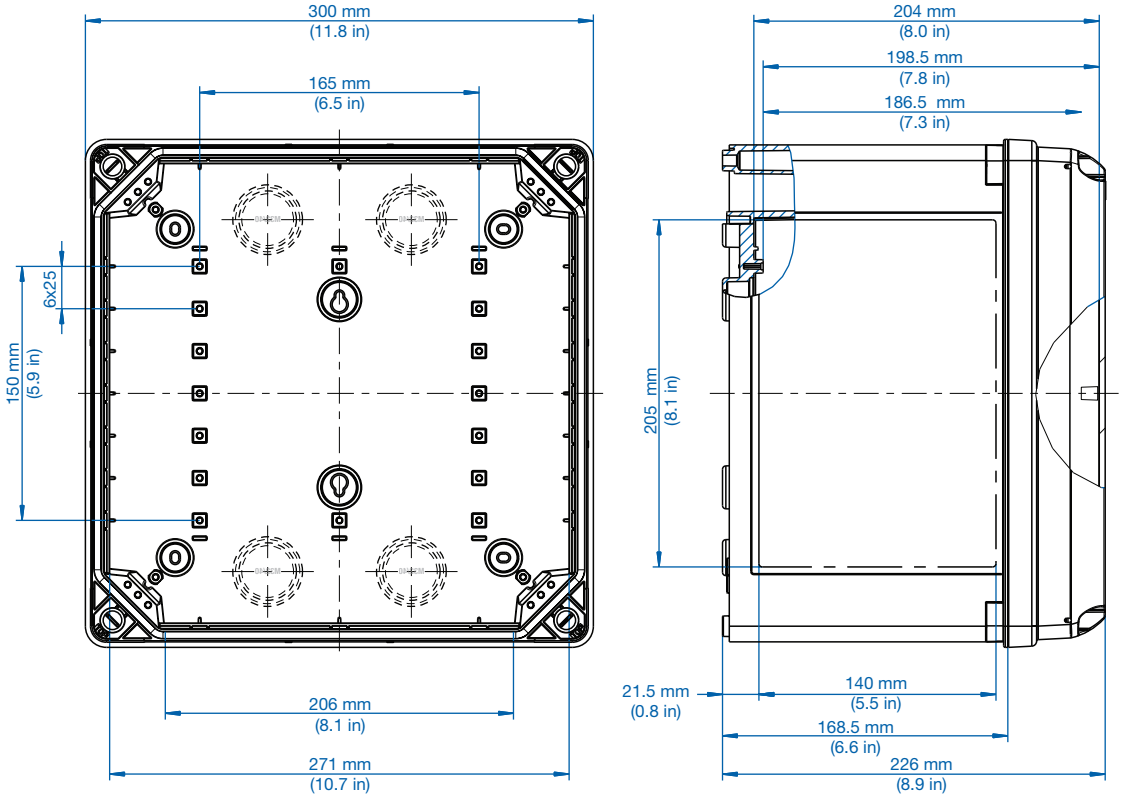
Description

Empty enclosure - Industrial Quality, suitable for installation in harsh environments and in unprotected outdoor areas.
Material: glass-fiber reinforced Polycarbonate
Color: gray (RAL 7035) or black (RAL 9005)

Size: 300 x 300 x 226 mm
11.8 x 11.8 x 8.9 in

c UL us E254144 UL TYPE 4X, 12K
UL EU
CE
PROTECTION IP67

Dimensions



See pages 19-24 for accessories.

GEOS STANDARD

Now also in BLACK



Cat No. 700-434
GEOS-L 3040-18-o
with grey cover



Cat No. 701-434
GEOS-L 3040-18-to
with transparent cover



Cat No. 742-434
GEOS-L 3040-18-o/sw
black with black cover



Cat No. 741-434
GEOS-L 3040-18-to/sw
black with transparent cover

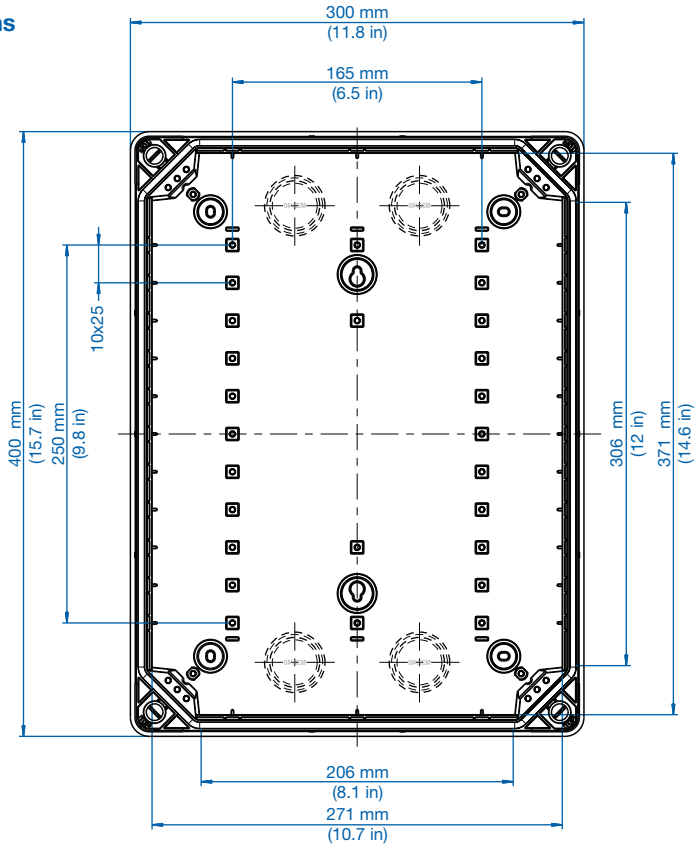
Description

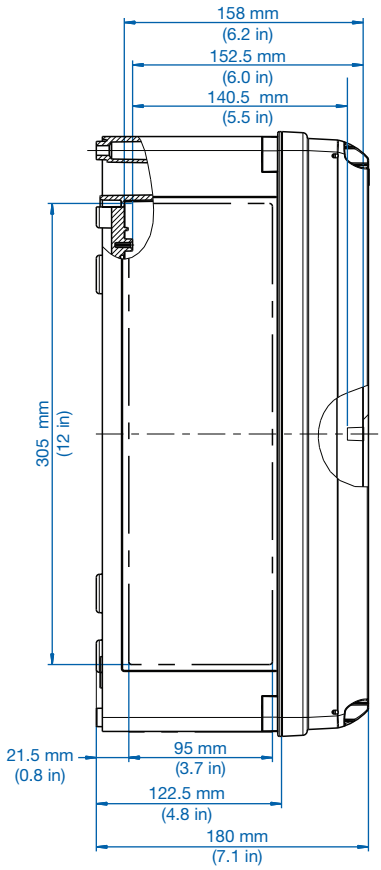
Empty enclosure - Industrial Quality, suitable for installation in harsh environments and in unprotected outdoor areas.
Material: glass-fiber reinforced Polycarbonate
Color: gray (RAL 7035) or black (RAL 9005)

Size: 300 x 400 x 180 mm
11.8 x 15.7 x 7.1 in

c UL us E254144 UL TYPE 4X, 12K
UL EU
CE
IP67 PROTECTION

Dimensions





See pages 19-24 for accessories.

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GEOS STANDARD

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Cat No. 700-734
GEOS-L 3040-22-o
with grey cover



Cat No. 701-734
GEOS-L 3040-22-to
with transparent cover



Cat No. 742-734
GEOS-L 3040-22-o/sw
black with black cover



Cat No. 741-734
GEOS-L 3040-22-to/sw
black with transparent cover

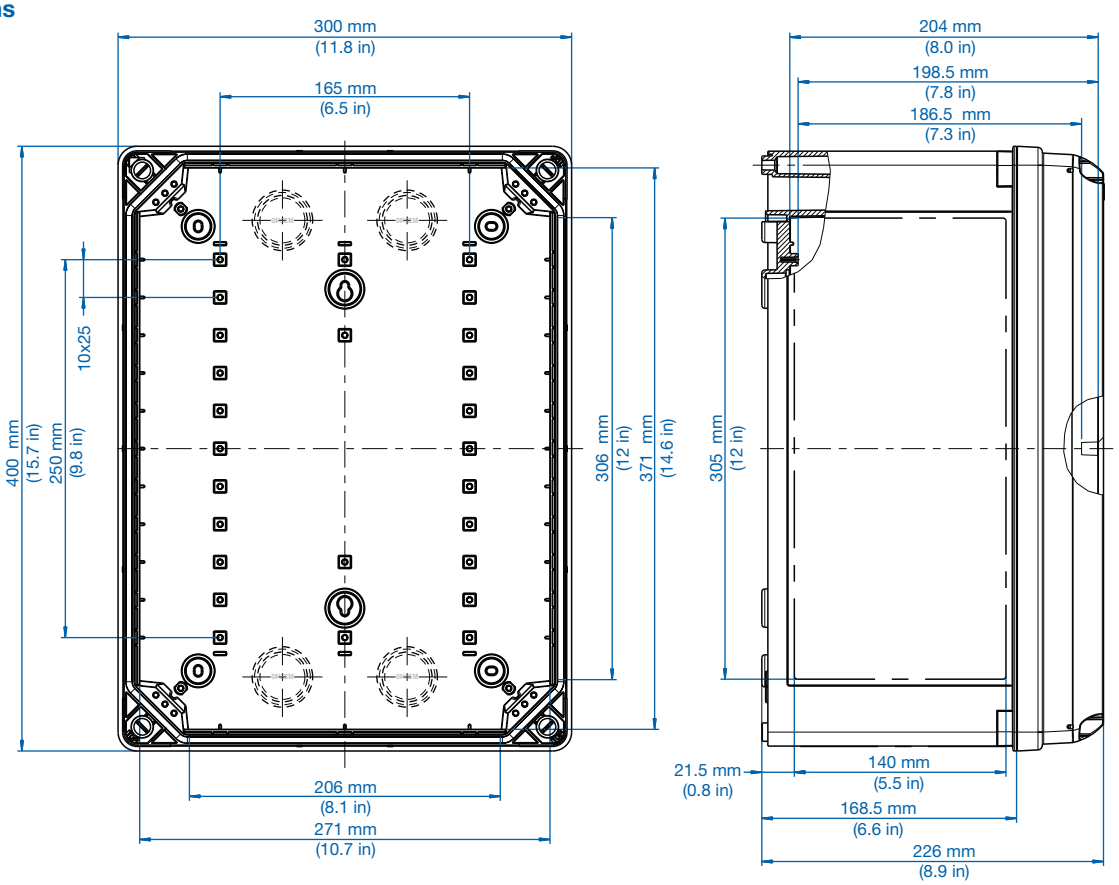
Description

Empty enclosure - Industrial Quality, suitable for installation in harsh environments and in unprotected outdoor areas.
Material: glass-fiber reinforced Polycarbonate
Color: gray (RAL 7035) or black (RAL 9005)

Size: 300 x 400 x 226 mm
11.8 x 15.7 x 8.9 in

c UL us E254144 UL TYPE 4X, 12K
UL EU
CE
PROTECTION IP67

Dimensions



See pages 19-24 for accessories.

GEOS STANDARD

Now also in BLACK



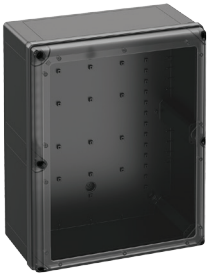
Cat No. 700-745
GEOS-L 4050-22-o
with grey cover



Cat No. 701-745
GEOS-L 4050-22-to
with transparent cover



Cat No. 742-745
GEOS-L 4050-22-o/sw
black with black cover



Cat No. 741-745
GEOS-L 4050-22-to/sw
black with transparent cover

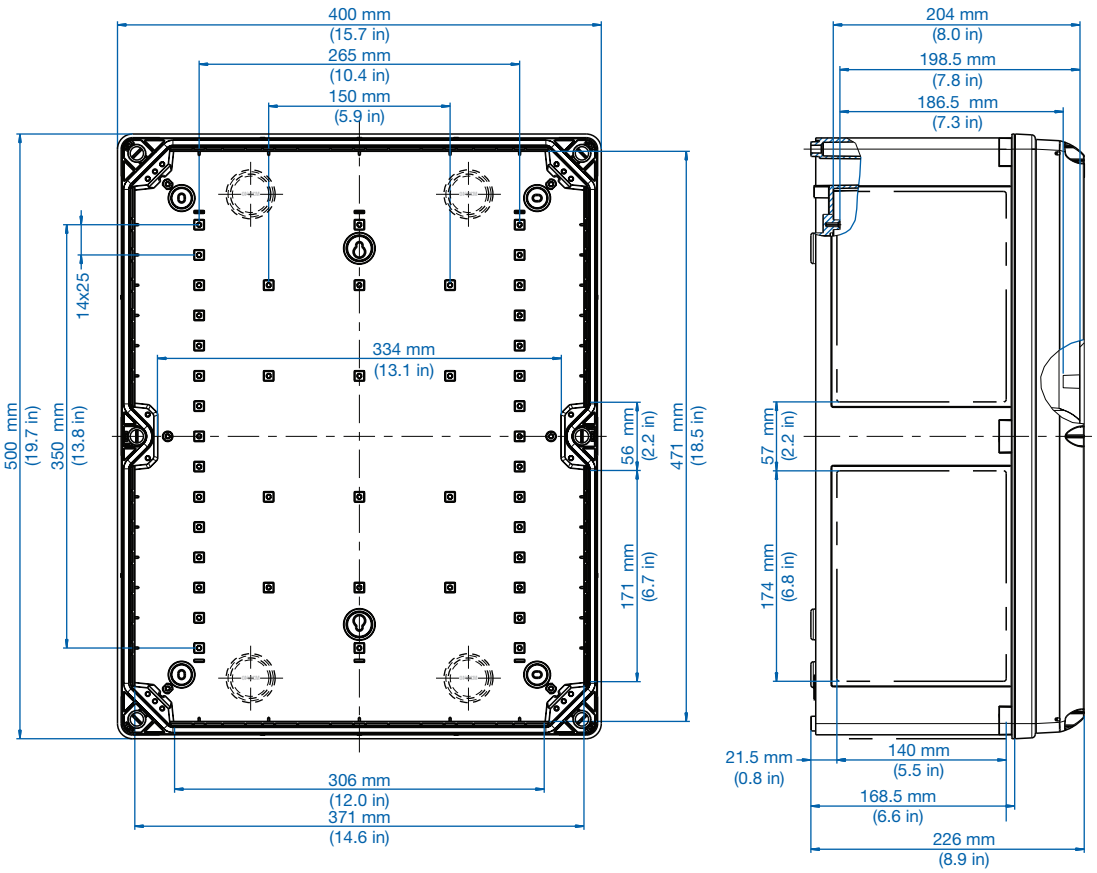
Description

Empty enclosure - Industrial Quality, suitable for installation in harsh environments and in unprotected outdoor areas.
Material: glass-fiber reinforced Polycarbonate
Color: gray (RAL 7035) or black (RAL 9005)

Size: 400 x 500 x 226 mm
15.7 x 19.7 x 8.9 in

c UL us E254144 UL TYPE 4X, 12K
UL EU
CE
PROTECTION IP67

Dimensions



See pages 19-24 for accessories.

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GEOS CABINET

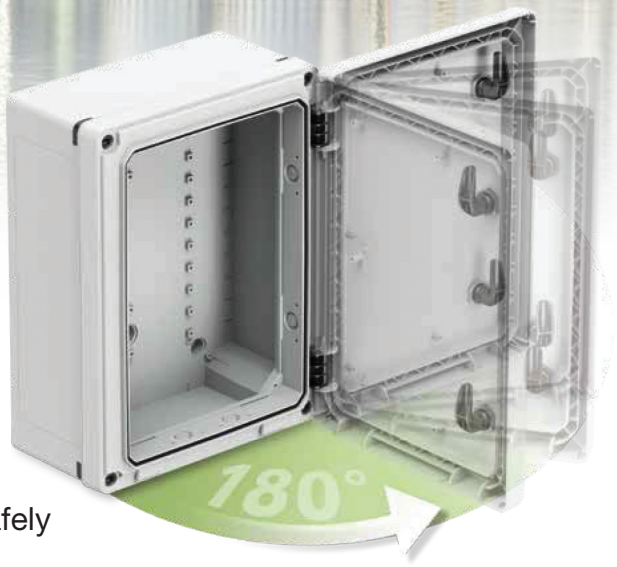
Optimized for rough outdoor applications

Now also in BLACK



Features

- Cover frame with hinged door
- Horizontal or vertical hinge layout
- Locking system - cam lock (3mm - two bit key)
- Transparent and grey doors
- 3 base sizes
- Up to 2 enclosure heights
- Cabinets tested according to IEC 61439, IEC 62208, UL 50, UL 50E, CSA 22.2
- UL TYPE 4X rated



Advantages

- Can be opened quickly and easily and closed safely
- Good operability of components
- No restrictions for the assembly of internal fittings
- Doors with wide opening angle > 180°
- Access to the interior space with standard locking system (3 mm - two-bit key)
- Alternative locking inserts available as accessories
- Doors are guided by frames to be solid
- Doors easily removed or reversed
- Frame accepts accessories (front plates, internal swing doors, contact protection modules, door stops, wiring)

GEOS CABINET

Now also in BLACK



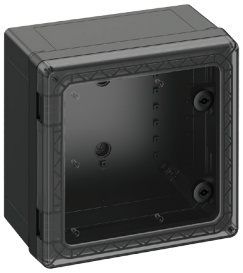
Cat No. 710-433
GEOS-S 3030-18-o
with grey cover



Cat No. 711-433
GEOS-S 3030-18-to
with transparent cover



Cat No. 750-433
GEOS-S 3030-18-o/sw
black with black cover



Cat No. 751-433
GEOS-S 3030-18-to/sw
black with transparent cover

Description

Cabinet - Industrial Quality, suitable for installation in harsh environments and in exposed outside areas, box and frame: glass-fiber reinforced Polycarbonate, gray (RAL 7035) or black (RAL 9005), door: Polycarbonate. Door latch: cam lock with 3mm double-bit insert (interchangeable) in accordance to DIN 43668

Size: 300 x 300 x 180 mm
11.8 x 11.8 x 7.1 in

c UL us
E510987
UL TYPE 4X, 12K

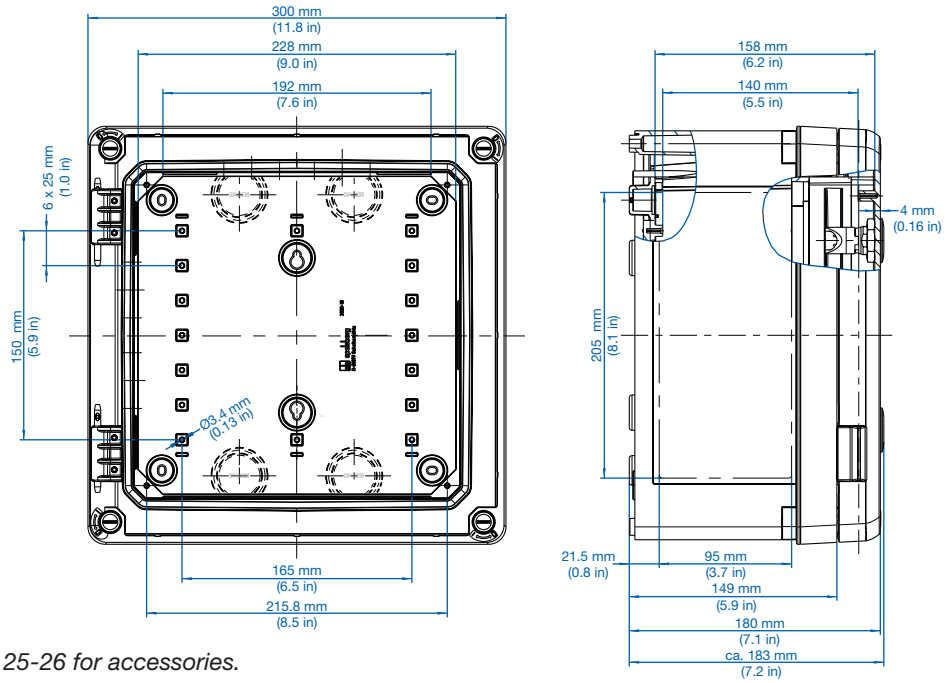
UL
EU

CE

PROTECTION IP67

Dimensions

without door, with frame



See pages 19-22 and 25-26 for accessories.

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GEOS CABINET

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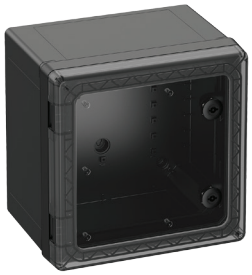
Cat No. 710-733
GEOS-S 3030-22-o
with grey cover



Cat No. 711-733
GEOS-S 3030-22-to
with transparent cover



Cat No. 750-733
GEOS-S 3030-22-o/sw
black with black cover



Cat No. 751-733
GEOS-S 3030-22-to/sw
black with transparent cover

Description

Cabinet - Industrial Quality, suitable for installation in harsh environments and in exposed outside areas, box and frame: glass-fiber reinforced Polycarbonate, gray (RAL 7035) or black (RAL 9005), door: Polycarbonate. Door latch: cam lock with 3mm double-bit insert (interchangeable) in accordance to DIN 43668

Size: 300 x 300 x 226 mm
11.8 x 11.8 x 8.9 in

c UL us
E510987
UL TYPE 4X, 12K

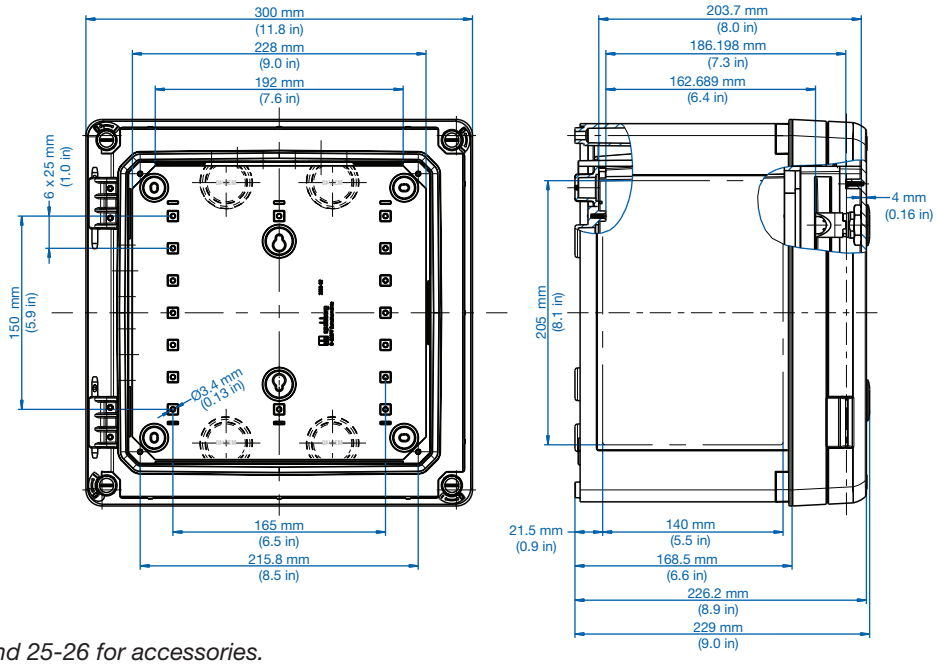
UL EU

CE

PROTECTION IP67

Dimensions

without door, with frame



See pages 19-22 and 25-26 for accessories.

GEOS CABINET

Now also in BLACK



** Also available as landscape layout versions GEOS-S 4030, consult Altech.*



Cat No. 710-434
GEOS-S 3040-18-o
with grey cover



Cat No. 711-434
GEOS-S 3040-18-to
with transparent cover



Cat No. 750-434
GEOS-S 3040-18-o/sw
black with black cover



Cat No. 751-434
GEOS-S 3040-18-to/sw
black with transparent cover

Description

Cabinet - Industrial Quality, suitable for installation in harsh environments and in exposed outside areas, box and frame: glass-fiber reinforced Polycarbonate, gray (RAL 7035) or black (RAL 9005), door: Polycarbonate. Door latch: cam lock with 3mm double-bit insert (interchangeable) in accordance to DIN 43668

Size: 300 x 400 x 180 mm
11.8 x 15.7 x 7.1 in

c UL us
E510987
UL TYPE 4X, 12K

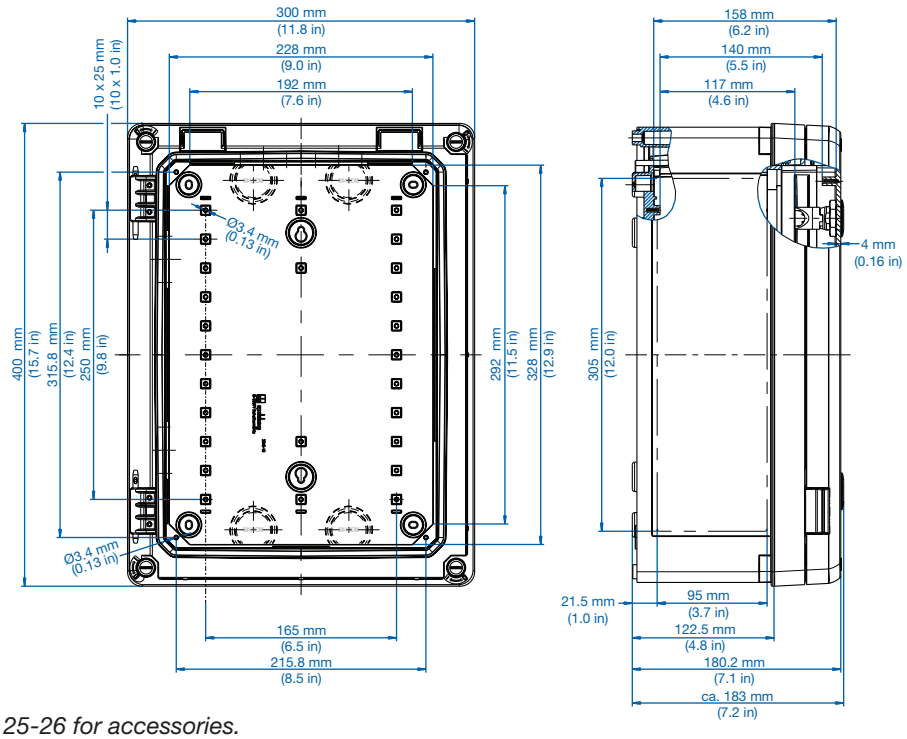
UL
EU

CE

PROTECTION IP67

Dimensions

without door, with frame



See pages 19-22 and 25-26 for accessories.

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GEOS CABINET

Now also in BLACK



** Also available as landscape layout versions GEOS-S 4030, consult Altech.*



Cat No. 710-734
GEOS-S 3040-22-o
with grey cover



Cat No. 711-734
GEOS-S 3040-22-to
with transparent cover



Cat No. 750-734
GEOS-S 3040-22-o/sw
black with black cover



Cat No. 751-734
GEOS-S 3040-22-to/sw
black with transparent cover

Description

Cabinet - Industrial Quality, suitable for installation in harsh environments and in exposed outside areas, box and frame: glass-fiber reinforced Polycarbonate, gray (RAL 7035) or black (RAL 9005), door: Polycarbonate. Door latch: cam lock with 3mm double-bit insert (interchangeable) in accordance to DIN 43668

Size: 300 x 400 x 226 mm
11.8 x 15.7 x 8.9 in

c UL us
E510987
UL TYPE 4X, 12K

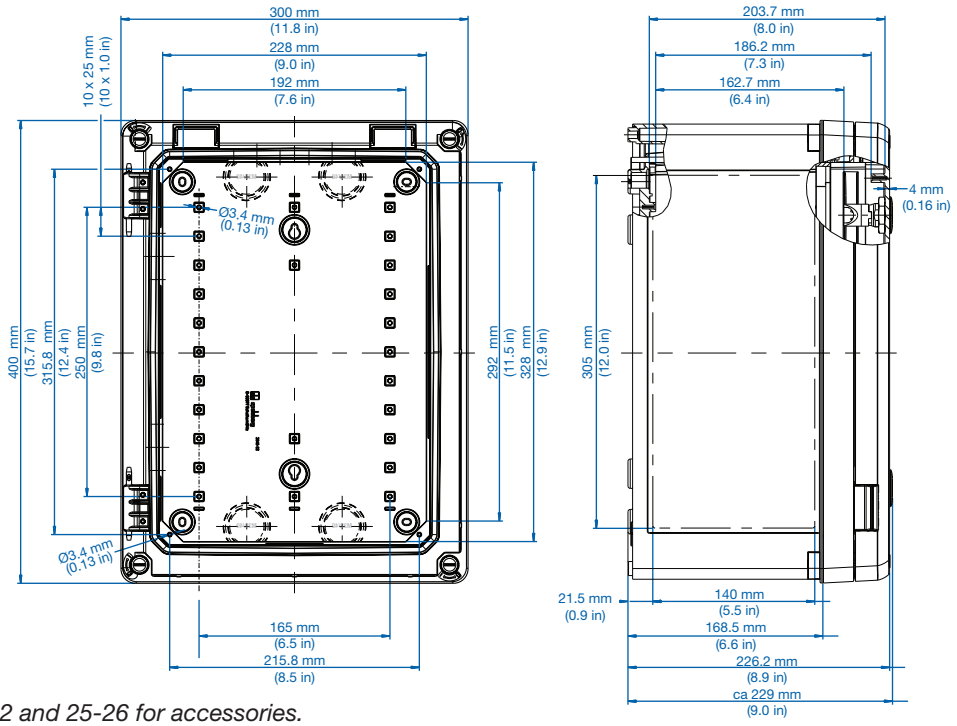
UL EU

CE

PROTECTION IP67

Dimensions

without door, with frame



See pages 19-22 and 25-26 for accessories.

GEOS CABINET

Now also in BLACK



** Also available as landscape layout versions GEOS-S 4030, consult Altech.*



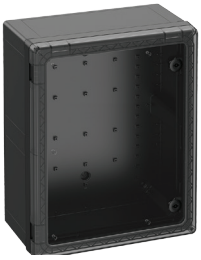
Cat No. 710-745
GEOS-S 4050-22-o
with grey cover



Cat No. 711-745
GEOS-S 4050-22-to
with transparent cover



Cat No. 750-745
GEOS-S 4050-22-o/sw
black with black cover



Cat No. 751-745
GEOS-S 4050-22-to/sw
black with transparent cover

Description

Cabinet - Industrial Quality, suitable for installation in harsh environments and in exposed outside areas, box and frame: glass-fiber reinforced Polycarbonate, gray (RAL 7035) or black (RAL 9005), door: Polycarbonate. Door latch: cam lock with 3mm double-bit insert (interchangeable) in accordance to DIN 43668

Size: 400 x 500 x 226 mm
15.7 x 19.7 x 8.9 in

c UL us
E510987
UL TYPE 4X, 12K

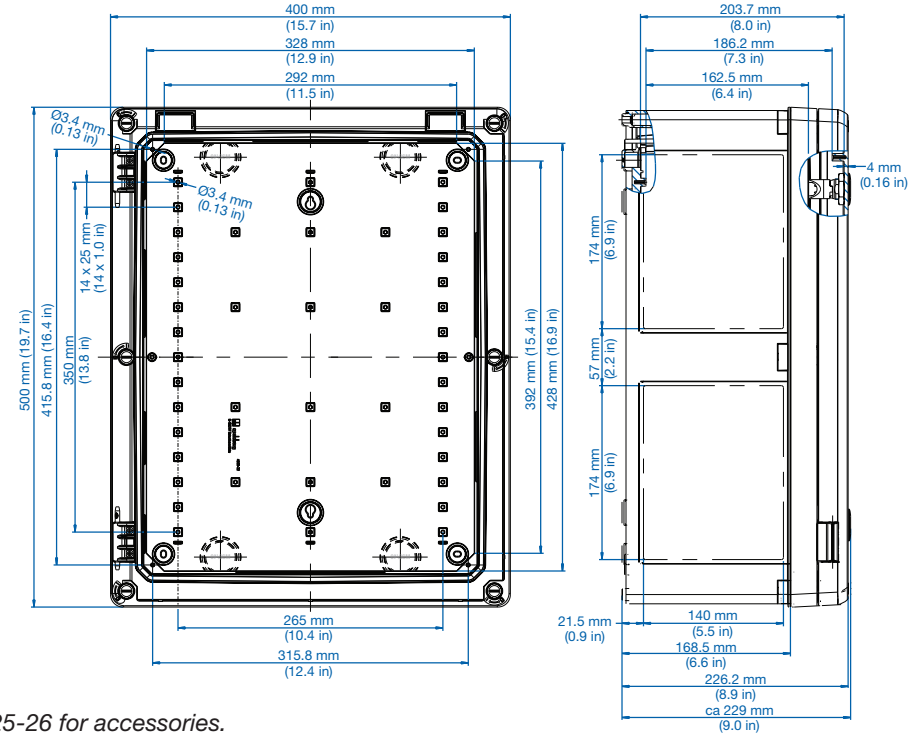
UL
EU

CE

PROTECTION IP67

Dimensions

without door, with frame



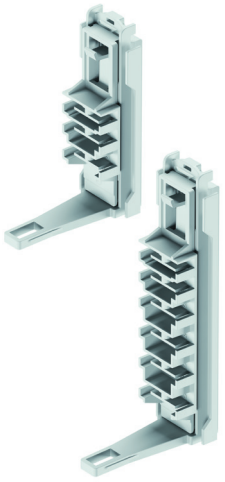
See pages 19-22 and 25-26 for accessories.

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Mounting Bracket 35/7.5

Description

Mounting bracket set, for tool-free mounting of standard rails 35 x 7.5 mm and mounting plates at various heights, Set = 4 pieces.



	No. of Mounting Heights	Enclosure Type	Cat. No.
GEOS MH-18	3	GEOS-L/S 3030-18 GEOS-L/-S 3040-18 GEOS-S 4030-18	720-022
GEOS MH-22	6	GEOS-L/S 3030-22 GEOS-L/S 3040-22 GEOS-L/S 4050-22 GEOS-S 4030-22 GEOS-S 5040-22	720-023

Mounting Bracket 35/15

Description

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



	No. of Mounting Heights	Enclosure Type	Cat. No.
GEOS MH-18 NS35/15	3	GEOS-L/S 3030-18 GEOS-L/-S 3040-18 GEOS-S 4030-18	720-024
GEOS MH-22 NS35/15	6	GEOS-L/S 3030-22 GEOS-L/S 3040-22 GEOS-L/S 4050-22 GEOS-S 4030-22 GEOS-S 5040-22	720-025

Universal Mounting Bracket

Description

Universal mounting holder set, for mounting of standard rail GEOS NS 35-200 to 400 or other items at various heights along the side of the enclosure, set = 4 pieces



	No. of Mounting Heights	Enclosure Type	Cat. No.
GEOS MHU-18	4	GEOS-L/S 3030-18 GEOS-L/S 3040-18 GEOS-S 4030-18	720-026
GEOS MHU-22	8	GEOS-L/S 3030-22 GEOS-L/S 3040-22 GEOS-L/S 4050-22 GEOS-S 4030-22 GEOS-S 5040-22	720-027

GEOS UNIVERSAL ACCESSORIES

Standard Rails - 35 x 7.5 mm

Description

Standard rails according to DIN EN 60715, 35 x 7.5 mm, including fixing screws for floor mounting. Optional mounting at various heights by means of mounting bracket.



	Enclosure Side	Length	Enclosure Type	Cat. No.
GEOS NS35-250	300 mm	250 mm	GEOS-L/S 3030 GEOS-L/S 3040 GEOS-S 4030	720-031
GEOS NS35-350	400 mm	350 mm	GEOS-L/S 3040 GEOS-L/S 4050 GEOS-S 5040	720-032
GEOS NS35-450	500 mm	450 mm	GEOS-L/S 4050 GEOS-S 5040	720-033

Standard Rails - 35 x 15 mm

Description

Standard rail according to DIN EN 60715, 35 x 15 mm, including fixing screws, for floor mounting, optional mounting with mounting bracket at various heights possible



	Enclosure Side	Length	Enclosure Type	Cat. No.
GEOS NS35/15-250	300 mm	250 mm	GEOS-L/S 3030 GEOS-L/S 3040 GEOS-S 4030	720-036
GEOS NS35/15-350	400 mm	350 mm	GEOS-L/S 3040 GEOS-L/S 4050 GEOS-S 5040	720-037
GEOS NS35/15-450	500 mm	450 mm	GEOS-L/S 4050 GEOS-S 5040	720-038

Standard Rail - GEOS 4050 mid

Description

Standard rail according to DIN EN 60715, width 35 mm at heights 7.5 and 15 mm, including fastening screws, for floor-mounting in GEOS 4050 (middle position), mounting using mounting bracket in different heights not possible



	Description	Cat. No.
GEOS NS35-327	for GEOS-L/S 4050 middle position, floor mount only, length, 327mm, height, 7.5mm	720-034
GEOS NS35/15-327	for GEOS-L/S 4050 middle position, floor mount only, length, 327mm, height, 15mm	720-039

Universal Mounting Holder Standard Rail

Description

Standard rail according to DIN EN 60715, 35 x 7.5 mm, including fastening screws, for mounting on GEOS universal mounting holder MHU



	Enclosure Side	Length	Enclosure Type	Cat. No.
GEOS NS35-200	300 mm	200 mm	GEOS-L/S 3030 GEOS-L/S 3040	720-081
GEOS NS35-300	400 mm	300 mm	GEOS-L/S 3040 GEOS-L/S 4050	720-082
GEOS NS35-400	500 mm	400 mm	GEOS-L/S 4050	720-083

Carrying frame NS35

Description

Carrying frame with standard rails 35 mm, including fixing screws for floor mounting. Optional mounting by means of mounting brackets possible in various heights, non shock protection, use with contact protection covers or stand alone



	DIN Rails	Enclosure Type	Cat. No.
GEOS TGS 3040-2	2 rows 35x7.5, 12 CB units per row	GEOS-L 3040 vertical and GEOS-S 3040	720-062
GEOS TGS 4050-3	3 rows 35x7.5, 18 CB units per row	GEOS-L 4050 vertical and GEOS-S 4050	720-064
GEOS TGS 4050-2	2 rows 35x7.5 21 CB units per row	GEOS-L 4050 horizontal and GEOS-S 5040	720-065
GEOS TGS NS35/15 3040-2	2 rows 35x15 12 CB units per row	GEOS-L 3040 vertical and GEOS-S 3040	720-072
GEOS TGS NS35/15 4050-3	3 rows 35x15 18 CB units per row	GEOS-L 4050 vertical and GEOS-S 4050	720-074
GEOS TGS NS35/15 4050-2	2 rows 35x15 21 CB units per row	GEOS-L 4050 horizontal and GEOS-S 5040	720-073

Mounting Plate Insulating Material

Description

Mounting plate made from insulating material, including fixing screws for floor mounting. Optional mounting at various heights by means of mounting bracket.

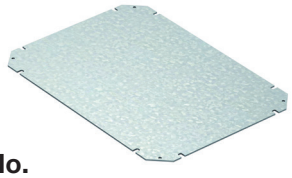


	Dimensions	Enclosure Type	Cat. No.
GEOS MPI-3030	250 x 250 x 5 mm	GEOS-L/S 3030-18 and 22	720-003
GEOS MPI-3040	250 x 350 x 5 mm	GEOS-L/S 3040-18 and 22	720-004
GEOS MPI-4050	350 x 450 x 5 mm	GEOS-L/S 4050-22	720-005

Mounting Plate Galvanized Steel

Description

Mounting plate made from galvanized steel, including fixing screws for floor mounting. Optional mounting at various heights by means of mounting bracket.



	Dimensions	Enclosure Type	Cat. No.
GEOS MPS-3030	250 x 250 x 2 mm	GEOS-L/S 3030-18 and 22	720-013
GEOS MPS-3040	250 x 350 x 2 mm	GEOS-L/S 3040-18 and 22	720-014
GEOS MPS-4050	350 x 450 x 2 mm	GEOS-L/S 4050-22	720-015

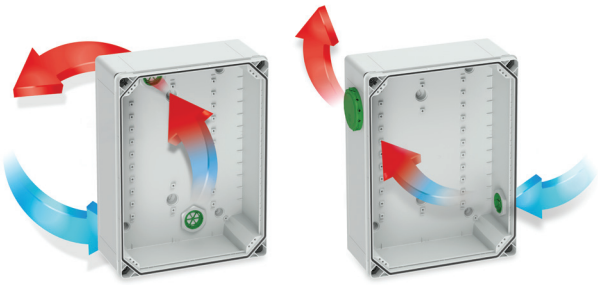
Ventilation Elements

Description

BEL Air ventilation elements set, for preventing condensate water formation in the enclosures, for vertical installation in the enclosure with appropriate knockout, at least two ventilation elements are required per enclosure. Air exchange rate: 30 l/day / Set.
UL Type 3R when using ventilation elements.

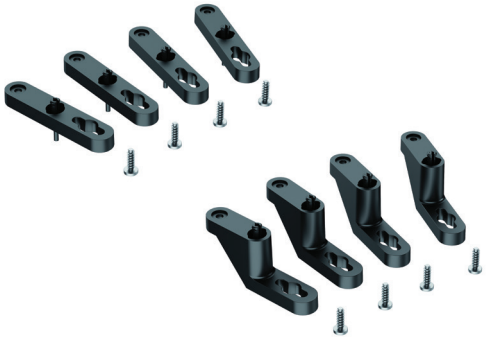


	Cat. No.
BEL Air M40 Set = 2 pieces	263-440



GEOS UNIVERSAL ACCESSORIES

External Mounting Tabs

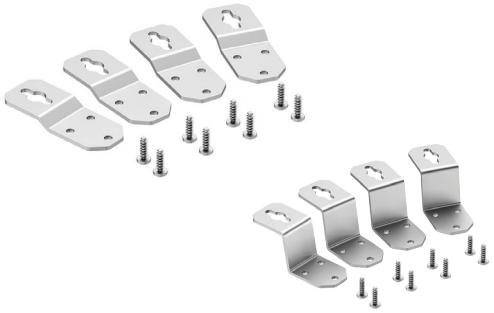


Description

Set of external mounting tabs made of plastic, can be mounted at an angle of 0°, 45° or 90°, Color: black, Set = 4 pieces.
UL Type 12K when using external mounting tabs.

	Wall clearance	Cat. No.
GEOS ABL-10	10 mm	720-020
GEOS ABL-40	40 mm	720-021

External Mounting Bracket



Description

External mounting bracket set made of V4A stainless steel, mounting possible at an angle of 0° or 90°, set = 4 pieces

	Wall Clearance	Cat. No.
GEOS ABL-10/ES	10 mm	720-075
GEOS ABL-40/ES	40 mm	720-076

Pole Mount Kit



example pole application

Description

Pole mount kit made of hot-dip galvanized steel, Set = 2 pieces.
Requires ring clamp set.

	Mounting Side	Dimensions	Cat. No.
GEOS MSS-30	300 mm	35 x 286 x 40 mm	720-050
GEOS MSS-40	400 mm	35 x 386 x 40 mm	720-051
GEOS MSS-50	500 mm	35 x 486 x 40 mm	720-052

Ring Clamp Set



Description

Ring clamp set made of stainless steel V2A, used in conjunction with pole mount kit GEOS MSS, Set = 2 pieces.

	Pole Diameter	Cat. No.
SRS 60-90	60 to 90 mm	720-040
SRS 90-150	90 to 150 mm	720-041
SRS 150-210	150 to 210 mm	720-042

Back Cover Plate



Description

Optional plate made of V2A stainless steel to cover the back of the GEOS housing when using the GEOS MSS pole mount kit. Blocks access to rear knockouts and gives finished look to back of enclosure when mounted. Set = 1 piece.

	Enclosure Type	Dimensions	Cat. No.
GEOS DP-3030	GEOS-L/S 3030	293 x 293 x 2 mm	720-130
GEOS DP-3040	GEOS-L/S 3040	293 x 393 x 2 mm	720-131
GEOS DP-4050	GEOS-L/S 4050	393 x 493 x 2 mm	720-132

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Standard Enclosure Front Mounting Plate

Description

Plate for mounting on top of enclosure base, made from insulating material, including fixing screws. Used for installing indicator and switching elements.



	Dimensions	Enclosure Type	Cat. No.
GEOS-L EP-3030	276 x 276 x 4 mm	GEOS-L 3030-18 and 22	721-013
GEOS-L EP-3040	276 x 376 x 4 mm	GEOS-L 3040-18 and 22	721-014
GEOS-L EP-4050	376 x 476 x 4 mm	GEOS-L 4050-22	721-015

Standard Enclosure Cover Plate

Description

Plate for mounting to inside of cover, made from insulating material, including fixing screws. Used for installing indicator and switching elements.



	Dimensions	Enclosure Type	Cat. No.
GEOS-L EPD-3030	276 x 276 x 4 mm	GEOS-L 3030-18 and 22	721-016
GEOS-L EPD-3040	276 x 376 x 4 mm	GEOS-L 3040-18 and 22	721-017
GEOS-L EPD-4050	376 x 476 x 4 mm	GEOS-L 4050-22	721-018

Standard Enclosure Partition Wall

Description

Partition wall made of insulating material, for dividing the enclosure, including support.



	Enclosure Side	Enclosure Type	Cat. No.
GEOS-L TW 30-18	300 mm	GEOS 3030-18 GEOS 3040-18	721-032
GEOS-L TW 30-22	300 mm	GEOS 3030-22 GEOS 3040-22	721-033
GEOS-L TW 40-18	400 mm	GEOS 3040-18	721-034
GEOS-L TW 40-22	400 mm	GEOS 3040-22 GEOS 4050-22	721-035
GEOS-L TW 50-22	500 mm	GEOS 4050-22	721-036

GEOS STANDARD ACCESSORIES

Standard Enclosure Contact Protection Cover



Description

Protective cover for rail-mounted devices, including fixing screws, for mounting in GEOS-L empty enclosure

	Description	Enclosure Type	Cat. No.
GEOS-L BSA 3030-1	1-row, 12 CB units	GEOS-L 3030-18 and 22	721-051
GEOS-L BSA 3040-1	1-row, 18 CB units	GEOS-L 3040-18 and 22	721-053
GEOS-L BSA 3040-2	2 row, 24 CB units	GEOS-L 3040-18 and 22	721-052
GEOS-L BSA 4050-2	2 row, 42 CB units	GEOS-L 4050-22	721-055
GEOS-L BSA 4050-3	3 row, 54 CB units	GEOS-L 4050-22	721-054

Standard Enclosure Cover Retainer





Description

Cover retainer made of stainless steel with fastening screws, mountable retroactively

	Description	Cat. No.
GEOS-L DVS	For GEOS empty enclosures, prevents cover from falling down unintentionally, set = 2 pieces	721-037



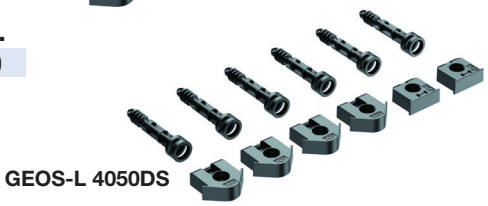
Standard Enclosure Conventional Lid Screws

Description

When conventional screws are preferred over the included 1/4 turn screws this kit can be used to replace the included set.



GEOS-L DS



GEOS-L 4050DS

	Enclosure size	Screw Qty.	Cat. No.
GEOS-L DS	GEOS 3030/3040	4	721-040
GEOS-L 4050DS	GEOS 4050	6	721-041

Cabinet Front Plate

Description

Front plate made of insulating material for the frame of GEOS cabinets, including fixing screws, used for the installation of command and signaling devices



	Dimensions	Cabinet Type	Cat. No.
GEOS-S EPR 3030	231 x 231 x 4 mm	GEOS-S 3030-18 and 22	722-013
GEOS-S EPR 3040/4030	231 x 331 x 4 mm	GEOS-S 3040-18 and 22 GEOS-S 4030-18 and 22	722-014
GEOS-S EPR 4050/5040	231 x 431 x 4 mm	GEOS-S 4050-22 GEOS-S 5040-22	722-015

Transparent Cabinet Front Plate

Description

Front plate made of clear transparent polycarbonate for the frame of GEOS cabinets, including fixing screws, used to protect fixtures located in the cabinet while at the same time ensuring visibility



	Dimensions	Cabinet Type	Cat. No.
GEOS-S EPR-t 3030	231 x 231 x 4 mm	GEOS-S 3030-18 and 22	722-103
GEOS-S EPR-t 3040/4030	231 x 331 x 4 mm	GEOS-S 3040-18 and 22 GEOS-S 4030-18 and 22	722-104
GEOS-S EPR-t 4050/5040	231 x 431 x 4 mm	GEOS-S 4050-22 GEOS-S 5040-22	722-105

Cabinet Door Mounting Plate

Description

Mounting plate made of insulating material for the door of GEOS cabinets, including fixing screws, used for installation of indicating elements and displays

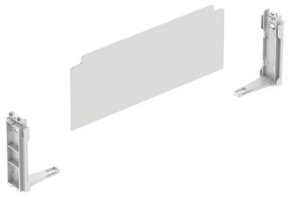


	Dimensions	Cabinet Type	Cat. No.
GEOS-S EPT 3030	150 x 225 x 4 mm	GEOS-S 3030-18 and 22	722-023
GEOS-S EPT 3040	150 x 325 x 4 mm	GEOS-S 3040-18 and 22	722-024
GEOS-S EPT 4030	250 x 225 x 4 mm	GEOS-S 4030-18 and 22	722-025
GEOS-S EPT 4050	250 x 425 x 4 mm	GEOS-S 4050-22	722-026
GEOS-S EPT 5040	175 x 325 x 4 mm	GEOS-S 5040-22	722-027

Cabinet Partition Wall

Description

Cabinet partition wall, made of insulating material, for dividing the enclosure, including support.



	Enclosure Side	Cabinet Type	Cat. No.
GEOS-S TW 30-18	300 mm	GEOS-S 3030-18, GEOS-S 3040-18, GEOS-S 4030-18	722-032
GEOS-S TW 30-22	300 mm	GEOS-S 3030-22, GEOS-S 3040-22, GEOS-S 4030-22	722-033
GEOS-S TW 40-18	400 mm	GEOS-S 3040-18, GEOS-S 4030-18	722-034
GEOS-S TW 40-22	400 mm	GEOS-S 3040-22, GEOS-S 4030-22, GEOS-S 4050-22, GEOS-S 5040-22	722-035
GEOS-S TW 50-22	500 mm	GEOS-S 4050-22, GEOS-S 5040-22	722-036

Cabinet Door Stop

Description

Door stop for securing the open cabinet door in two possible positions



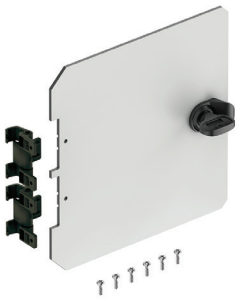
	Cabinet Type	Cat. No.
GEOS-S TFS	all GEOS-S cabinets	722-070

GEOS CABINET ACCESSORIES

Cabinet Inner Door

Description

Inner door made of insulating material for installation in GEOS cabinets, including fixing material and rotary twist lock, 3mm double bit, used for installation of displays, command and signaling devices, material thickness: 4 mm



	Cabinet Type	Cat. No.
GEOS-S IT 3030	GEOS-S 3030	722-003
GEOS-S IT 3040	GEOS-S 3040	722-004
GEOS-S IT 4030	GEOS-S 4030	722-005
GEOS-S IT 4050	GEOS-S 4050	722-006
GEOS-S IT 5040	GEOS-S 5040	722-007

Cabinet Twist Lock Set

Description

Twist lock set for installation in GEOS-S cabinets as replacments for standard 3mm double-bit insert, set = 2 pieces



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

Cabinet Contact Protection Module

Description

Contact protection modules for tool-free installation in the frame of GEOS cabinets, grey plastic similar to RAL 7035



	Description	Cabinet Type	Cat. No.
GEOS-S BSM 3030-9	9 CB units, single-row	GEOS-S 3030-18 and 22	722-083
GEOS-S BSM 3030	Solid, without openings	GEOS-S 3030-18 and 22	722-084
GEOS-S BSM 3040-9	9 CB units, single-row	GEOS-S 3040-18 and 22	722-087
GEOS-S BSM 3040	Solid, without openings	GEOS-S 3040-18 and 22	722-088
GEOS-S BSM 4050-15	15 CB units, single-row, mounting on top/bottom	GEOS-S 4050-22	722-091
GEOS-S BSM 4050-15/MIT	15 CB units, single-row, mounting in middle	GEOS-S 4050-22	722-092
GEOS-S BSM 4050	Solid, without openings	GEOS-S 4050-22	722-093
GEOS-S BSM 3040-9/2	18 CB units, double-row Set consisting of 2 x articles 722-087	GEOS-S 3040-18 and 22	722-097
GEOS-S BSM 4050-15/3	45 CB units, triple-row Set consisting of 2 x articles 722-091 and 1 x article 722-092	GEOS-S 4050-22	722-098

Cabinet Cover Screw Set

Description

Cabinet cover screw set for replacements



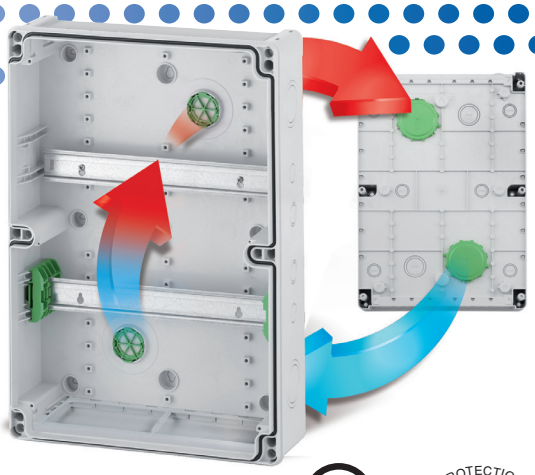
	Cabinet Type	Cat. No.
GEOS-S 3030 S	GEOS-S 3030	722-040
GEOS-S 3040/4030 S	GEOS-S 3040 and GEOS-S 4030	722-041
GEOS-S 4050/5040 S	GEOS-S 4050 and GEOS-S 5040	722-042

The Intelligent Air Ventilation System

The **patented Air Ventilation elements** avoid condensate water while preserving the high protection class IP65. Occurring condensate is transported out of the enclosure immediately via air exchange.

The continuous and high air exchange allows the interior air to mix constantly with the environmental air and transports the moisture outward.

Even environments with nearly constant humidity and temperature possess air exchange, since the air on the interior of the enclosure warms due to the fittings. The individual components of the ventilation elements mainly consist of the rotating cover (rear side of box) and the 10µm filter element integrated on the inside of the box.



c UL us
E254144
UL TYPE 3R, 12, 12K

PROTECTION IP65



Advantages of Air ventilation elements

- Prevention of condensate water while preserving the high protection class IP65
- High air exchange rate
- 100% pressure compensation
- Foreign object protection
- Maintenance-free

Patent No.
WO 2015/063057 A1



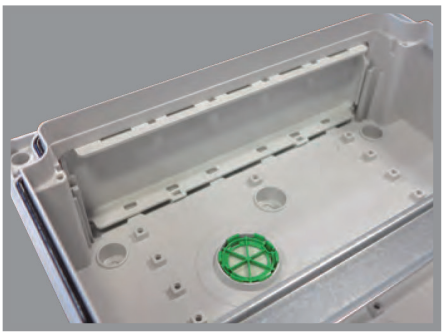
Similar part sold separately for use in other enclosure series, see page 34.

WINNER
DESIGN AWARD

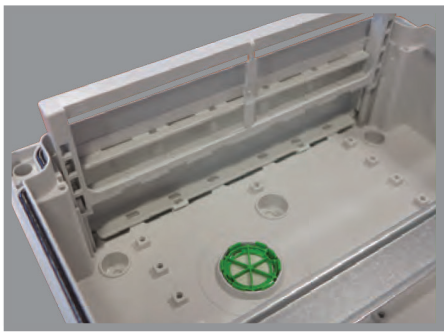




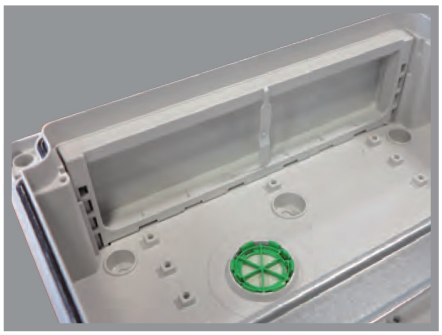
Combination flange / flange end wall (sold separately, see page 33)



Insert the flange from the outside.



Insert the flange connector into the side guide rails and push down.



The locking mechanisms grip into the flange and the flange connector latches in place.

Integrated Air ventilation elements



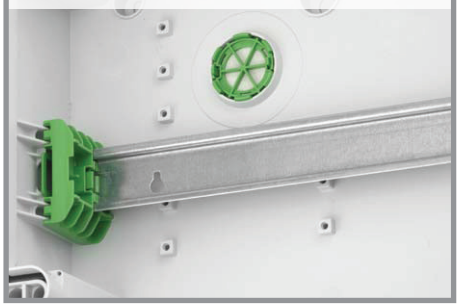
Prevention of condensate water while preserving protection class IP65

Top/bottom ends



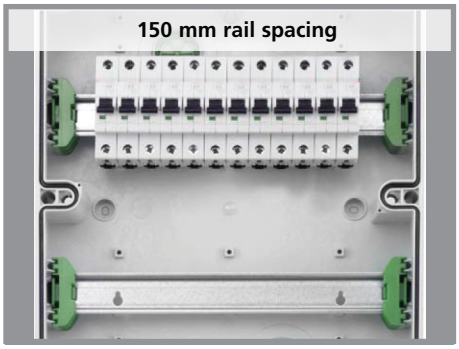
Top/bottom ends supplied open and are closed with flange system end walls (see page 8)

Height-adjustable mounting rail



For installation devices sizes 1 to 3 and special designs

150 mm rail spacing



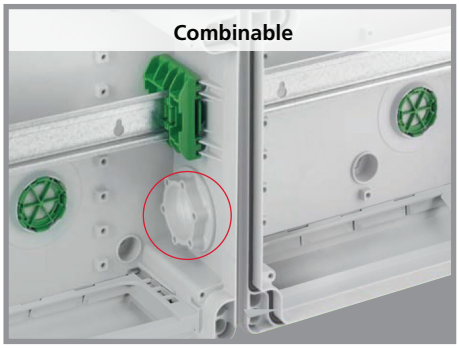
Offers plenty of space for wiring

Optimized hinged window



With ergonomically shaped grips for simple opening. Hinge side easily changed.

Combinable



Easily lateral combination via optional M50 combination connectors

Optional exterior installation



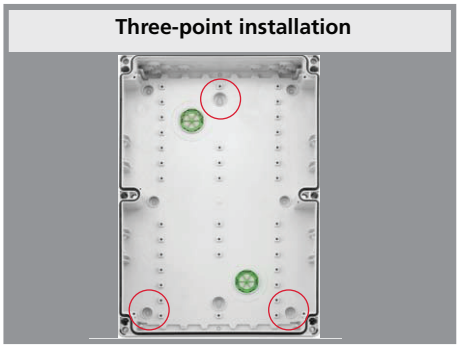
Installation via external mounting tabs

New installation option



Installation outside of sealing area suitable for systems featuring a maximum measured insulation voltage of 1,000V AC / 1,500V DC

Three-point installation



Easy installation via keyhole mounting

DLG focus test: Ammonia resistance



Resistance against stable/barn air for minimum 20 years

Indoor and outdoor installation



One distribution board for every application

Free of halogen, PVC and silicone



Highly flame-retardant

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Cat No. 733-514

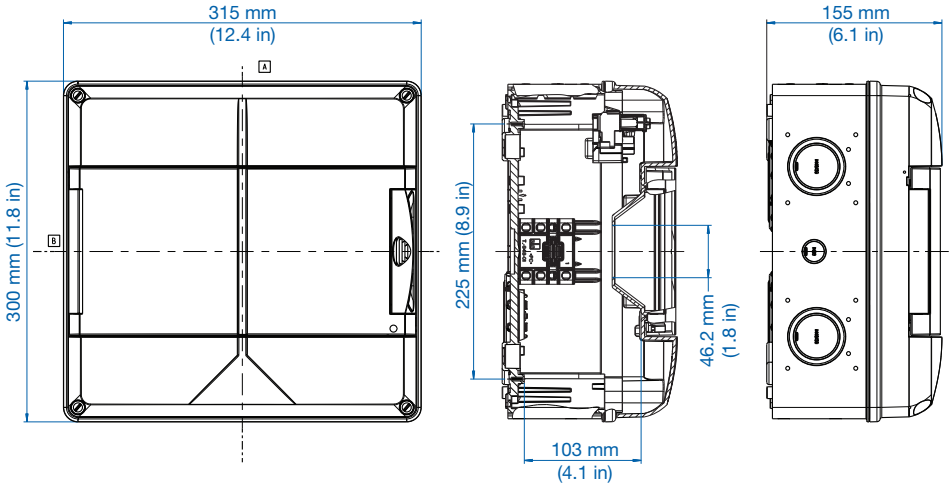
AK-F 14

Knockouts on each side:
2x M40/50
1x M20

Rear Knockouts:
2x M32/40
4x M20/25

Description

Distribution box - Industrial Quality -, flange type, with open top and bottom, for use with various flanges or to combine multiple AK-F - distribution boxes with combination flange, 1 row, 14 modules with pre-installed height adjustable DIN rail. Integrated ventilation elements included to reduce condensation. Labeling strips included.





315 x 300 x 155 mm
(12.4 x 11.8 x 6.1 in)

c UL us E254144 UL TYPE 3R, 12, 12K
UL EU
DVE
CE
PROTECTION IP65

Flange end walls sold separately see page 33.

Cat No. 733-528

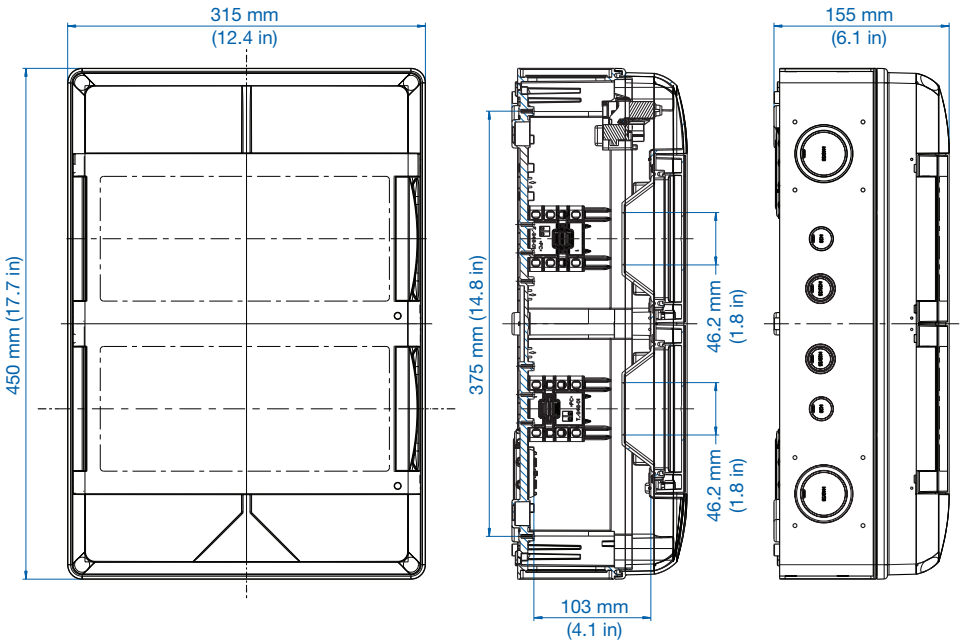
AK-F 28

Knockouts on each side:
2 x M40/50
2 x M20/25
2 x M20

Rear Knockouts:
2 x M32/40
6 x M20/25

Description

Distribution box - Industrial Quality -, flange type, with open top and bottom, for use with various flanges or to combine multiple AK-F - distribution boxes with combination flange, 2 rows, 28 modules with pre-installed height adjustable DIN rails. Integrated ventilation elements included to reduce condensation. Labeling strips included.





315 x 450 x 155 mm
(12.4 x 17.7 x 6.1 in)

c UL us E254144 UL TYPE 3R, 12, 12K
UL EU
DVE
CE
PROTECTION IP65

Flange end walls sold separately see page 33.

Cat No. 733-542

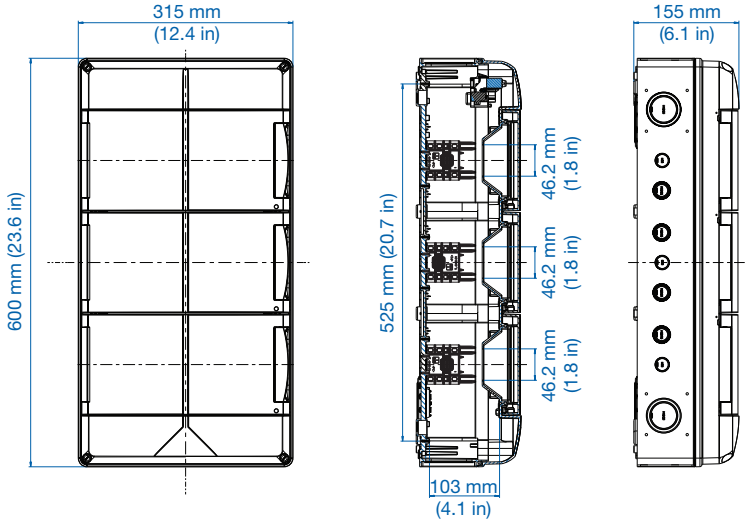
AK-F 42

Knockouts on each side:
2 x M40/50
4 x M20/25
3 x M20

Rear Knockouts:
2 x M32/40
8 x M20/25

Description

Distribution box - Industrial Quality -, flange type, with open top and bottom, for use with various flanges or to combine multiple AK-F - distribution boxes with combination flange, 3 rows, 42 modules with pre-installed height adjustable DIN rails. Integrated ventilation elements included to reduce condensation. Labeling strips included.





315 x 600 x 155 mm
(12.4 x 23.6 x 6.1 in)

E254144
UL TYPE 3R, 12, 12K

EU

IP65

Flange end walls sold separately see page 33.

Cat No. 733-556

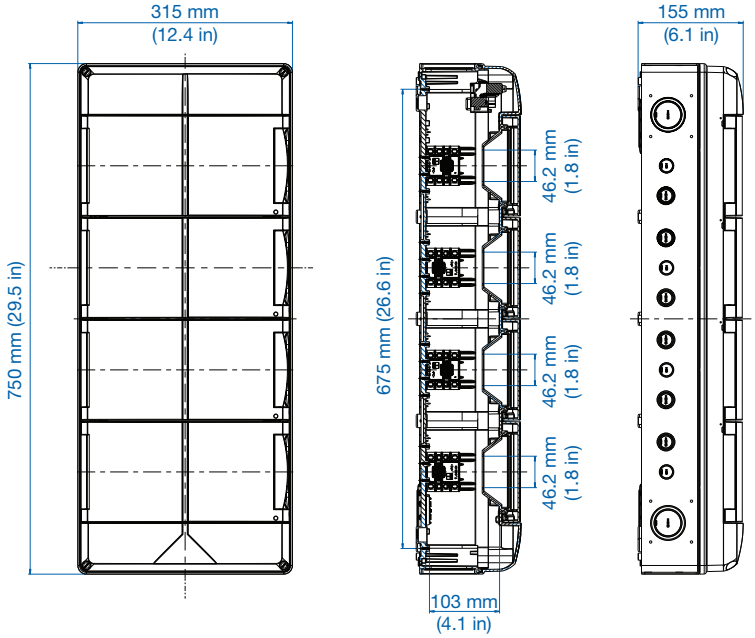
AK-F 56

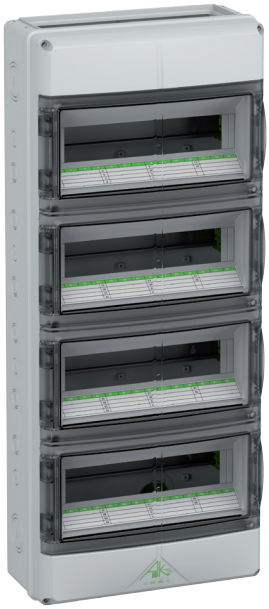
Knockouts on each side:
2 x M40/50
6 x M20/25
4 x M20

Rear Knockouts:
2 x M32/40
6 x M20/25

Description

Distribution box - Industrial Quality -, flange type, with open top and bottom, for use with various flanges or to combine multiple AK-F - distribution boxes with combination flange, 4 rows, 56 modules with pre-installed height adjustable DIN rails. Integrated ventilation elements included to reduce condensation. Labeling strips included.





315 x 750 x 155 mm
(12.4 x 29.5 x 6.1 in)

E254144
UL TYPE 3R, 12, 12K

EU

IP65

Flange end walls sold separately see page 33.

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Cat No. 733-714

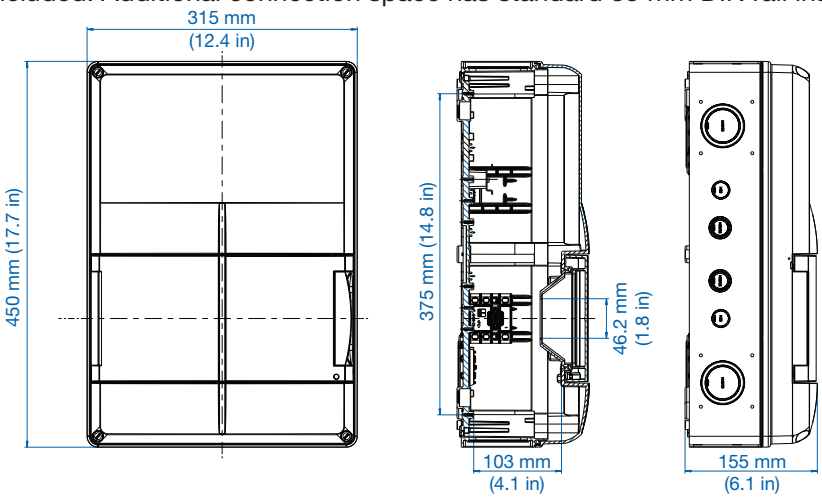
AK-F 14 Plus

Knockouts on each side:
2 x M40/50
2 x M20/25
2 x M20

Rear Knockouts:
2 x M32/40
6 x M20/25

Description

Distribution box - Industrial Quality -, flange type, with open top and bottom, for use with various flanges or to combine multiple AK-F - distribution boxes with combination flange, 1 row, 14 modules with pre-installed height adjustable DIN rail. Integrated ventilation elements included to reduce condensation. Labeling strips included. Additional connection space has standard 35 mm DIN rail installed.





315 x 450 x 155 mm
(12.4 x 17.7 x 6.1 in)

E254144
UL TYPE 3R, 12, 12K

EU

PROTECTION IP65

Flange end walls sold separately see page 33.

Cat No. 733-728

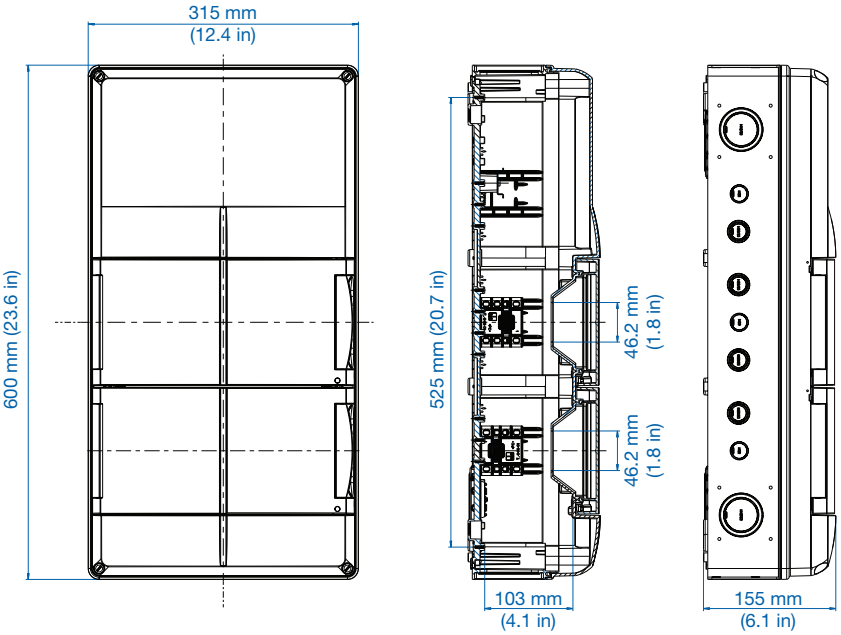
AK-F 28 Plus

Knockouts on each side:
2 x M40/50
4 x M20/25
3 x M20

Rear Knockouts:
2 x M32/40
8 x M20/25

Description

Distribution box - Industrial Quality -, flange type, with open top and bottom, for use with various flanges or to combine multiple AK-F - distribution boxes with combination flange, 2 rows, 28 modules with pre-installed height adjustable DIN rails. Integrated ventilation elements included to reduce condensation. Labeling strips included. Additional connection space has standard 35 mm DIN rail installed.





315 x 600 x 155 mm
(12.4 x 23.6 x 6.1 in)

E254144
UL TYPE 3R, 12, 12K

EU

PROTECTION IP65

Flange end walls sold separately see page 33.

Cat No. 733-742

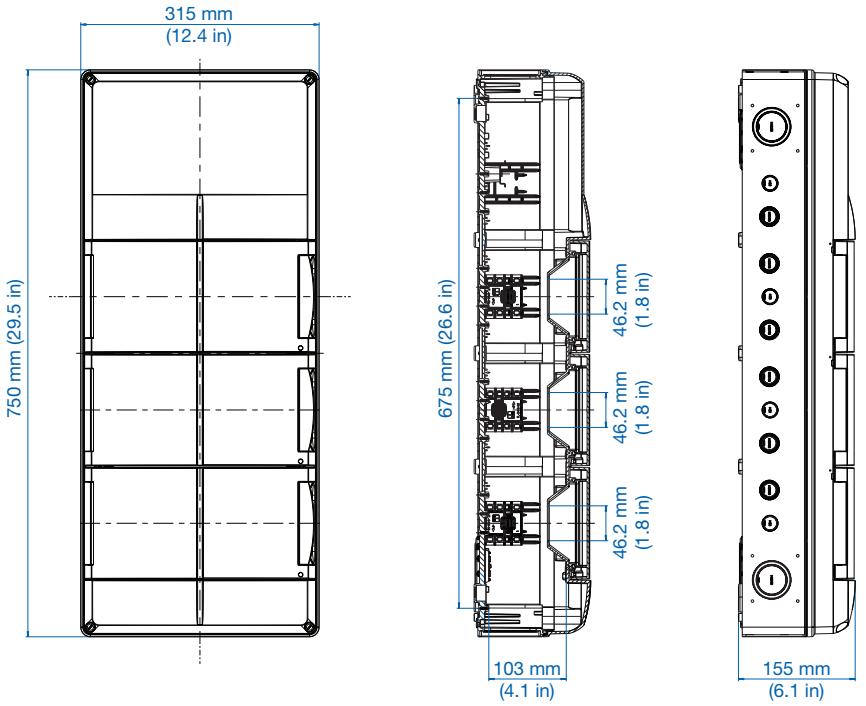
AK-F 42 Plus

Knockouts on each side:
2 x M40/50
6 x M20/25/
4 x M20

Rear Knockouts:
2 x M32/40
10 x M20/25

Description

Distribution box - Industrial Quality -, flange type, with open top and bottom, for use with various flanges or to combine multiple AK-F - distribution boxes with combination flange, 3 rows, 42 modules with pre-installed height adjustable DIN rails. Integrated ventilation elements included to reduce condensation. Labeling strips included. Additional connection space has standard 35 mm DIN rail installed.





315 x 750 x 155 mm
(12.4 x 29.5 x 6.1 in)

c UL us
E254144
UL TYPE 3R, 12, 12K

UL EU

VDE

CE

PROTECTION IP65

Flange end walls sold separately see page 33.

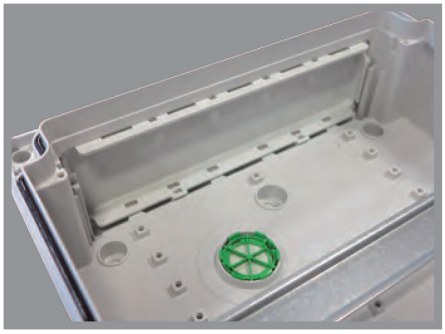


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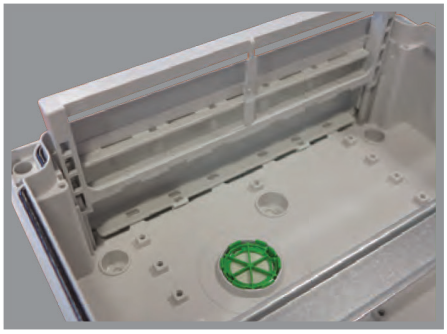
Flanges / End Walls

All AK-F enclosures must be closed with flanges on the top/bottom end. Altech offers a wide selection of different flanges. Two AK-F enclosures can be combined using the combination flange at the top/bottom end.

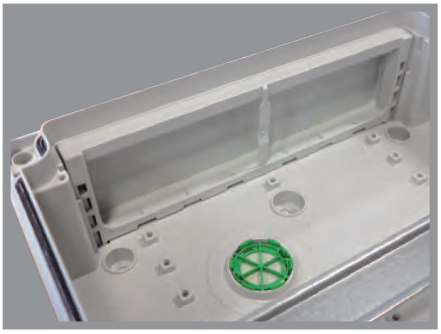
Combination flange / flange end wall



Insert the flange from the outside.



Insert the flange connector into the side guide rails and push down.



The locking mechanisms grip into the flange and the flange connector latches in place.

Cat No. 733-820

AK3 FL00

Description

Enclosure wall including flange connector for sealing the top or bottom of AK-F enclosures, without knockouts.



Cat No. 733-821

AK3 FL01

Description

Enclosure wall including flange connector for sealing the top or bottom of AK-F enclosures, with knockouts: 1 x M50/M40, 2 x M40/32, 2 x M20.



Cat No. 733-822

AK3 FL02

Description

Enclosure wall including flange connector for sealing the top or bottom of AK-F enclosures, with knockouts: 5 x M25/M20, 4 x M20, 2 x M16.



Cat No. 733-829

AK3 KFL

Description

Combination flange including flange connector for the top or bottom connection to combine two AK-F enclosures.



Other Accessories

Cat No. 733-831

AK3 KBL

Description

Cable cover for the attachment to AK-F 14/28/42/56 housings, as well as Plus types. Can be retroactively mounted on the end.

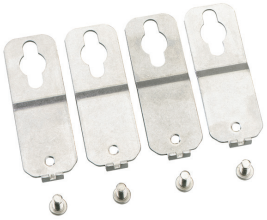


Cat No. 733-833

AK3 ABL-ES

Description

Stainless steel external mounting tabs, suitable for enclosure AK-F 14/28/42/56, as well as Plus types, 1 set= 4 pcs.



Cat No. 733-830

AK3 KS MSO

Description

Combination gland M50 for the lateral connection of housings AK-F 14/28/42/56, as well as Plus types.



Cat No. 733-812

AK3 NS35-14

Description

Standard DIN rail 35 x 7.5 mm, including height adjustable DIN rail mount for all AK -F 14/28/42/56, as well as Plus types.



Cat No. 733-813

AK3 NS35-275

Description

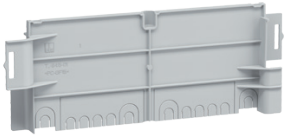
DIN rail 35 x 7.5 mm, length 275 mm, including universal floor fixing mounts for all AK-F 14/28/42/56, as well as Plus types.

Cat No. 733-832

AK31 TW

Description

Divider made of plastic, suitable for the interior subdivision of AK-F 14/28/42/56 housings, as well as Plus types, with knockouts for cables.



Cat No. 263-440

BEL AIR M40

Description

Air Ventilation elements for use in enclosures without vent system. Mounts in M40 knockout. Set of 2.



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