

# modular enclosure MUREVA, IP65

## aesthetics

- Elegant and robust design.
- Colour easy to integrate in any environment.

## multi-functional

- Different solutions for: industrial control, electrical distribution, automation, etc.
- 

## evolutionary

- Add-on possibility.
- The association kit allows the cable passage while maintaining IP65.

## ergonomics and time saving

- Ample space allowing clear cable assembly.
- Easy to label.
- Back with PG and ISO concentric knock-outs.
- Removable chassis.
- Screwed or clipped terminals.

## security

- Total insulation (class 2).
- Heat resistance: 750 °C.
- Halogen free.
- Provision of earthing terminals in all models.
- Can be sealed and/or locked.

## complete range

- From economical mini-enclosures of reduced dimensions, up to 54 modules available.
- Polyvalent enclosures for non-modular equipment.
- Wide range of accessories.

## robust and weatherproof

- IP65 as per IEC 60529: protection against ingress of solid bodies and liquid.
- IK09 as per EN 50102: protection against shocks.

## flexibility

- A large number of configurations are possible.
- Possibility of combine modular and non-modular devices.

## weatherproof & versatile enclosures



# modular enclosure MUREVA, IP65

suitable for all the environments



■ **Kitchens:** humid environments.



■ **Harbours, seaside:** saline & corrosive atmosphere.



■ **Fairs, amusement park:** outdoor.



■ **Greenhouses:** humid and dusty places.



■ **Garages, parking lot:** atmospheres plenty of dust and smoke.



■ **Swimming pool:** humid and chlorinated ambiance.

## mini-ED

- Weatherproof mini-enclosures for modular switchgear, economic and compact.



## ED

- Weatherproof enclosures for modular switchgear. up to 54 modules. With 1, 2 or 3 lines of 12 or 18 modules.



## mixta

- Provides a row for modular switchgear and a zone to install non-modular switchgear.

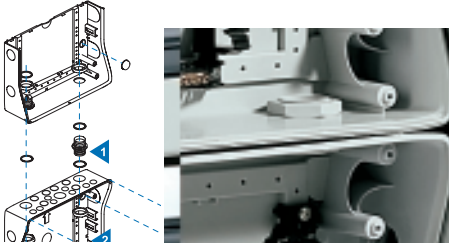


## universal

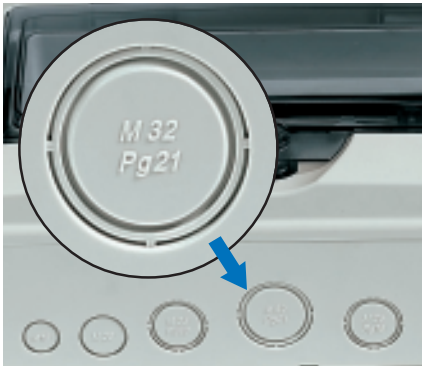
- The opaque door versatile enclosure provides a zone to install non-modular switchgear.



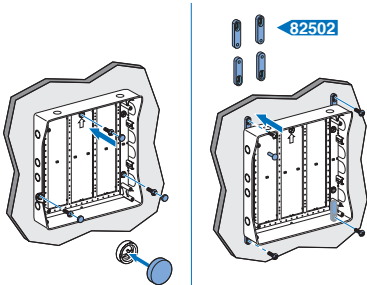
# modular enclosure MUREVA, IP65



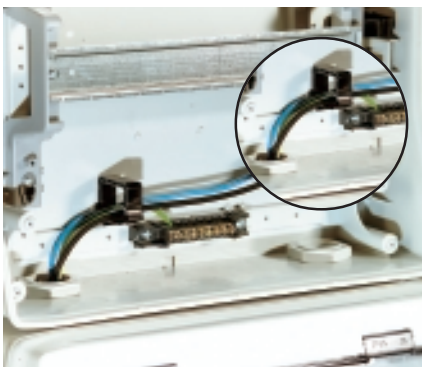
- The Coupling kit can be used to combine two enclosures while maintaining IP65 and allowing the cable passage.



- Back with PG and ISO concentric knock-outs.

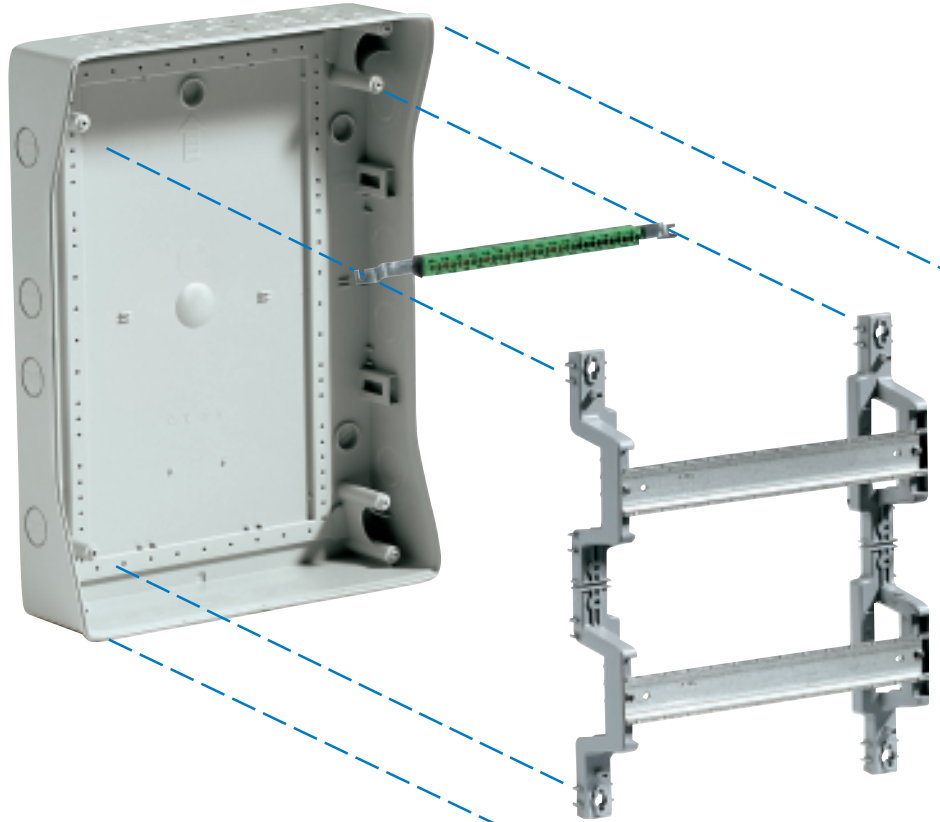


- Direct wall fixing by means of the holes in the rear of enclosure or with use of the wall fixing brackets.



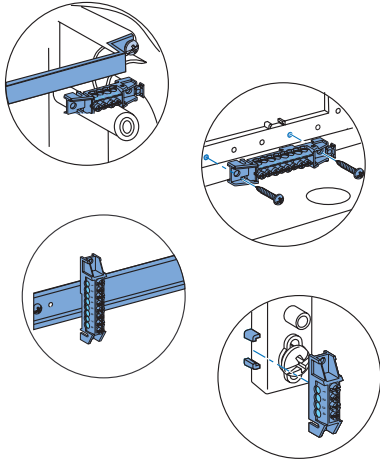
- Wiring strap used for simplified cabling.

## enclosure's characteristic

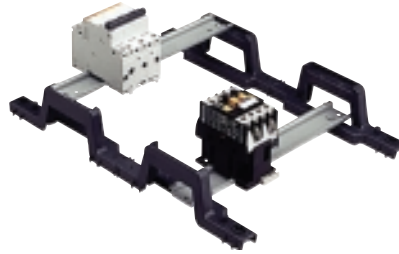


- Labels for a clear and easy identification.

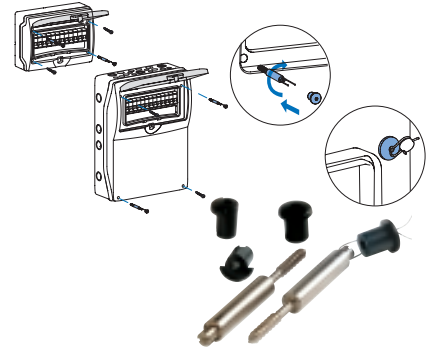
# modular enclosure MUREVA, IP65



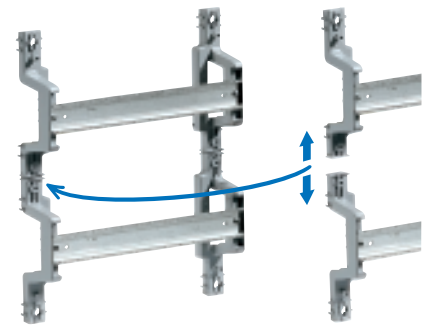
■ Screwed or clipped terminals block.



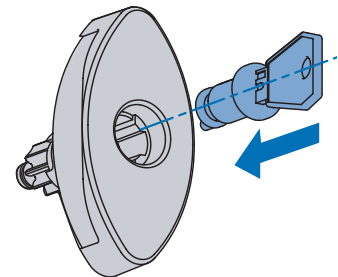
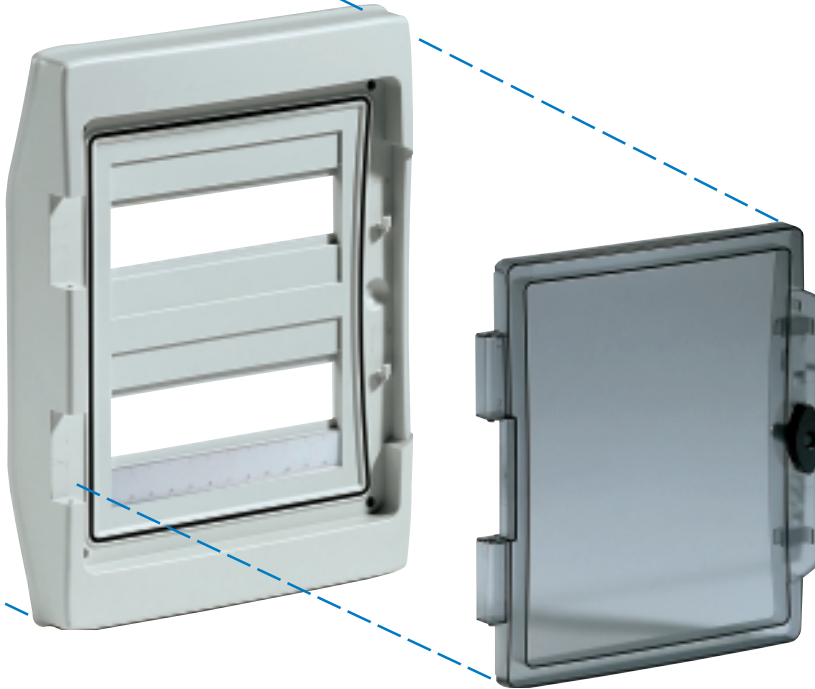
- Easy chassis removable allowing quick cabling and components assembly.
- Two possible depth position for rail assembly.



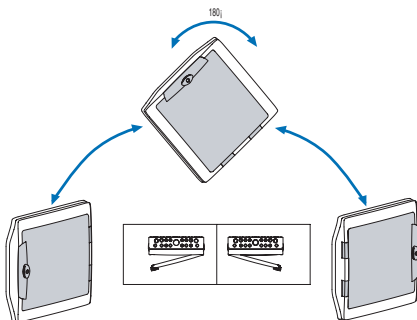
■ Security kit used to seal the front face.



■ The chassis can be cut allowing the installation of a mounting plate for non-modular switchgear.



■ Optional keylock available for further security.



■ Reversible front section allowing lid to be open left or right.



■ Quick hinges disassembly allowing easy removal of the lid.

# modular enclosure MUREVA, IP65

## mini-ED

Weatherproof mini-enclosures for modular switchgear, economic and compact.

### technical data

- Self-extinguishing insulating material, flame and abnormal heat resistance: 750 °C as per IEC 60695-2-1.
- Operating temperature: -25 °C to +60 °C.
- Color: light grey RAL 7035 and semi-transparent door.
- IP65 as per IEC 60529.
- IK09 as per EN 50102.
- Class 2: total insulation.
- Complies with standard IEC 60439-3 (low voltage switchgear and control assemblies).
- Resistance to chemicals and atmospheric agents.
- Stainless steel screws.

### constructive characteristics

- Clip-on terminal block support.
- Provision of additional neutral or earthing terminals in all models.
- Possibility of coupling two enclosures while maintaining IP65 and allowing the cable passage.
- Back with PG and ISO concentric knock-outs.
- Optional keylock available for further security.
- Possibility of seal the front face.

### Delivered with

- Terminal block support.
- Earth terminal block.
- Marking kit.
- Caps for class 2 isolation.

mini modular.tif



### references

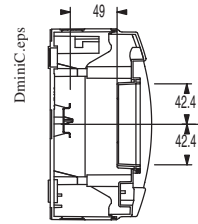
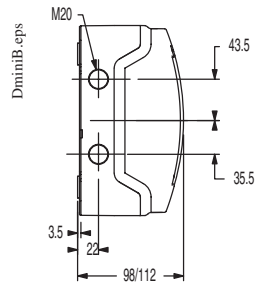
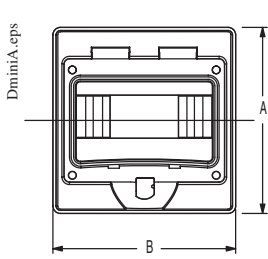
external dimensions (mm)			reference	number of modules	number of rows
height	width	depth			
150	80	98	<b>82001</b>	3	1
200	123	112	<b>82002</b>	4	1
200	159	112	<b>82003</b>	6	1
200	195	112	<b>82004</b>	8	1
200	267	112	<b>82005</b>	12	1

### number of terminal blocks delivered with a box

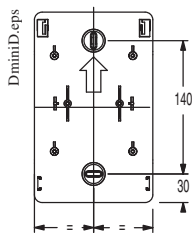
reference	number of modules	number of rows	earth terminal block	terminal support
<b>82001</b>	3	1	4 holes	–
<b>82002</b>	4	1	4 holes	1
<b>82003</b>	6	1	8 holes	1
<b>82004</b>	8	1	8 holes	1
<b>82005</b>	12	1	16 holes	1

# modular enclosure MUREVA, IP65

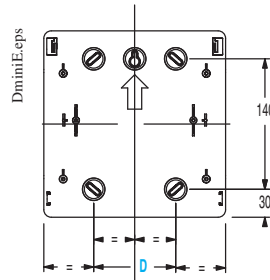
## enclosures mini-ED



3, 4 and 6 modules

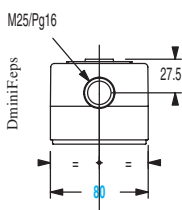


8 and 12 modules

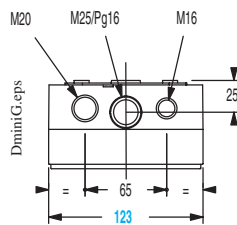


reference	external dimensions (mm)			number of modules	D	weight (g)
	height (A)	width (B)	depth (C)			
82001	150	80	98	3	-	300
82002	200	123	112	4	-	450
82003	200	159	112	6	-	500
82004	200	195	112	8	88	700
82005	200	267	112	12	160	900

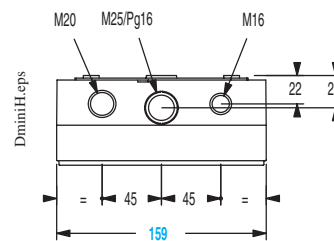
3 modules



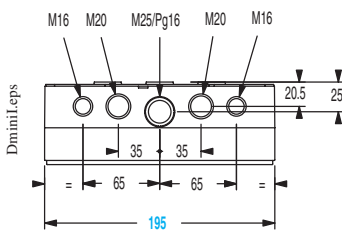
4 modules



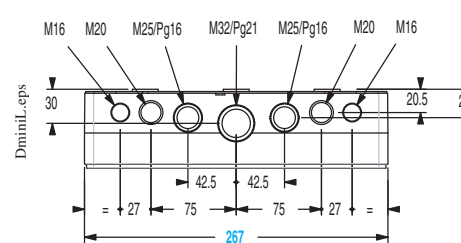
6 modules



8 modules



12 modules



# modular enclosure MUREVA, IP65

## modular enclosure

Weatherproof enclosures for modular switchgear.

Up to 54 modules. With 1, 2 or 3 lines of 12 or 18 modules.

## technical data

- Self-extinguishing insulating material, flame and abnormal heat resistance: 750 °C as per IEC 60695-2-1.
- Operating temperature: -25 °C ... +60 °C.
- Colour: light grey RAL 7035 and semi transparent door.
- IP65 as per IEC 60529.
- IK09 as per EN 50102.
- Class 2: Total insulation.
- Complies with standard IEC 60439-3 (low voltage switchgear and control assemblies).
- Resistance to chemicals and atmospheric agents.
- Stainless steel screws.

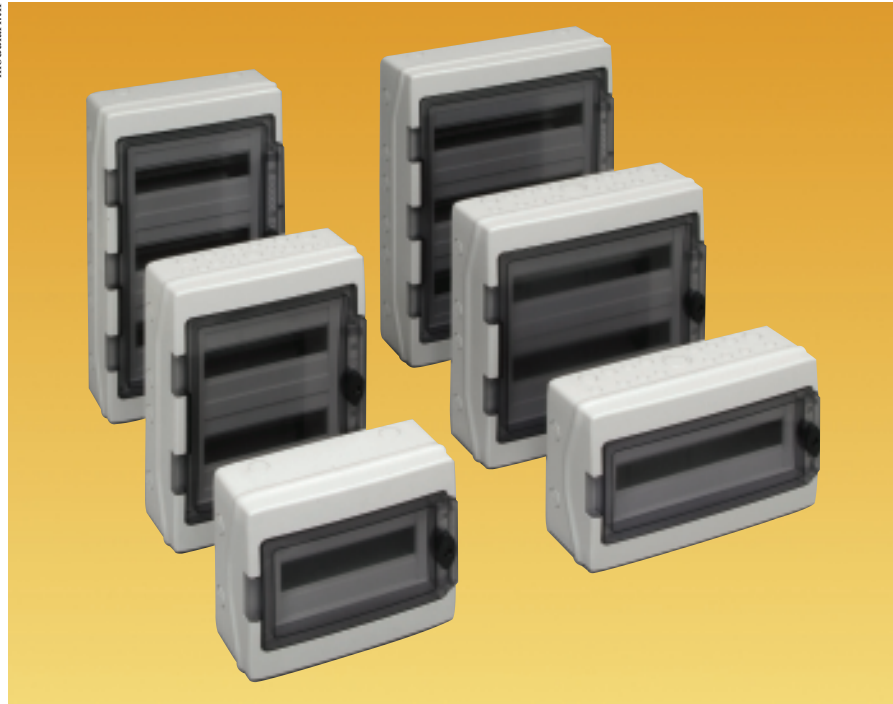
## constructive characteristics

- Reversible front face for opening of door to the left or right.
- Screwed terminal block support.
- Provision of additional neutral or earthing terminals in all models.
- Possibility of coupling two enclosures while maintaining IP65 and allowing the cable passage.
- Back with PG and ISO concentric knock-outs.
- Direct wall fixing by means of the holes in the rear of enclosure or with use of the wall fixing brackets (not included).
- Ergonomic and sure lock that allow the installation of a key for further security.
- Possibility of seal the front face.
- Possibility of adding wiring strap for simplified cabling.

## derived with

- Terminal block support.
- Earth terminal block.
- Marking kit.
- Wiring strap.
- Caps for class 2 isolation.
- Blanking plate (5 modules of 18 mm).

modular.tif



## references

external dimensions (mm)					
height	width	depth	reference	number of modules	number of rows
280	340	160	<b>82010</b>	12	1
280	448	160	<b>82020</b>	18	1
460	340	160	<b>82011</b>	24	2
460	448	160	<b>82021</b>	36	2
610	340	160	<b>82012</b>	36	3
610	448	160	<b>82022</b>	54	3

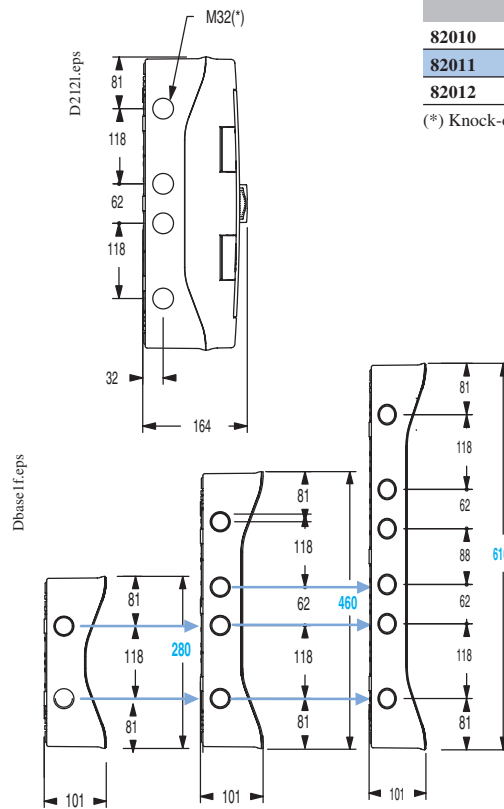
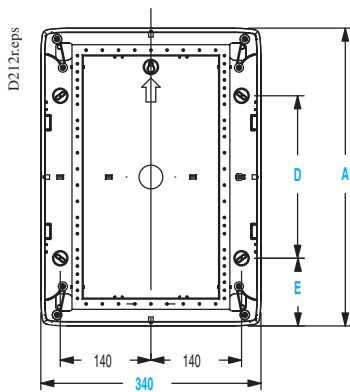
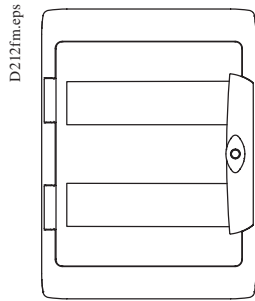
## number of terminal blocks delivered with a box

reference	number of modules	number of rows	earth terminal block	terminal support
<b>82010</b>	12	1	8 holes	1
<b>82020</b>	18	1	16 holes	1
<b>82011</b>	24	2	22 holes	1
<b>82021</b>	36	2	32 holes	1
<b>82012</b>	36	3	32 holes	1
<b>82022</b>	54	3	2x22 holes	2

# modular enclosure MUREVA, IP65

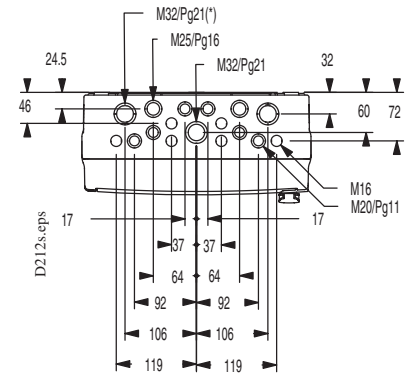
## modular enclosures

### Width 12 modules

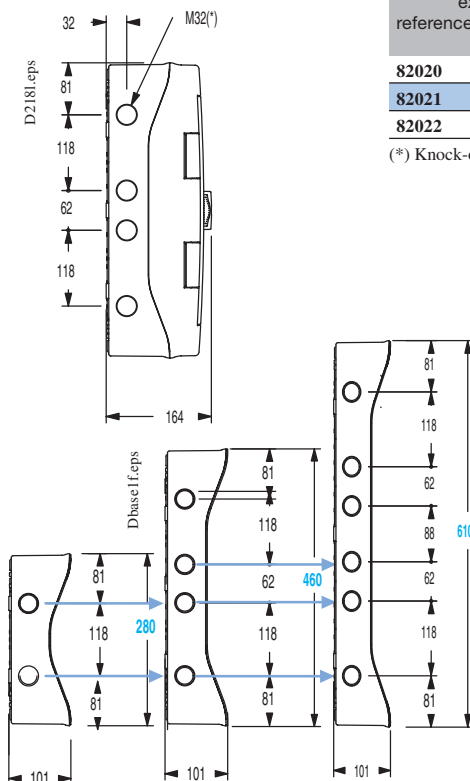
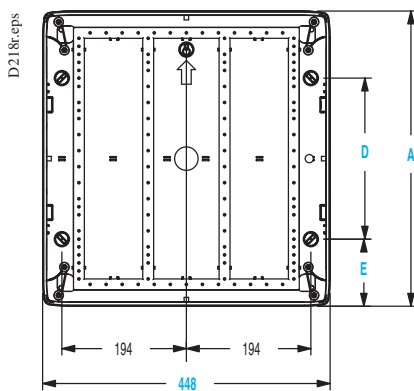
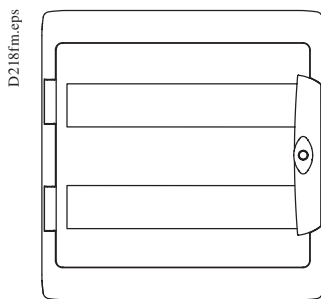


	external dimensions (mm)			number of modules	D	E	weight (g)
	references (A)	height (B)	depth (C)				
<b>82010</b>	280	340	160	12	118	81	1900
<b>82011</b>	460	340	160	24	251	104,5	3100
<b>82012</b>	610	340	160	36	401	104,5	4100

(\*) Knock-outs for coupling enclosures.

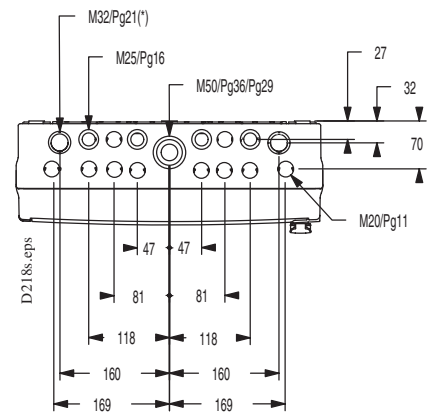


### Width 18 modules



	external dimensions (mm)			number of modules	D	E	weight (g)
	references (A)	height (B)	depth (C)				
<b>82020</b>	280	448	160	18	118	81	2400
<b>82021</b>	460	448	160	36	251	104,5	3850
<b>82022</b>	610	448	160	54	401	104,5	4150

(\*) Knock-outs for coupling enclosures.





# modular enclosure MUREVA, IP65

## mini-ED

Weatherproof mini-enclosures for modular switchgear, economic and compact.

### technical data

- Self-extinguishing insulating material, flame and abnormal heat resistance: 650 °C as per IEC 60695-2-1.
- Operating temperature: -25 °C to +60 °C.
- Color: light grey RAL 7035 and semi-transparent door.
- IP65 as per IEC 60529.
- IK09 as per EN 50102.
- Class 2: total insulation.
- Complies with standard IEC 60439-3 (low voltage switchgear and control assemblies).
- Resistance to chemicals and atmospheric agents.
- Stainless steel screws.

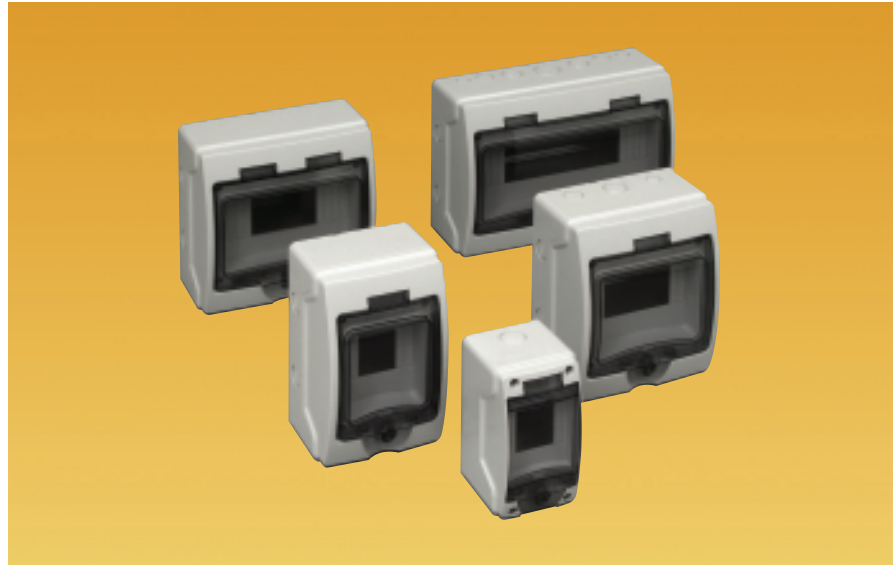
### constructive characteristics

- Clip-on terminal block support.
- Provision of additional neutral or earthing terminals in all models.
- Possibility of coupling two enclosures while maintaining IP65 and allowing the cable passage.
- Back with PG and ISO concentric knock-outs.
- Optional keylock available for further security.
- Possibility of seal the front face.

### Delivered with

- Terminal block support.
- Earth terminal block with green cover, neutral terminal block with blue cover.
- Marking kit.
- Caps for class 2 isolation.

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### references

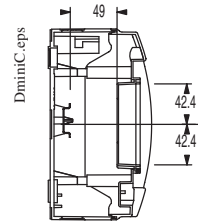
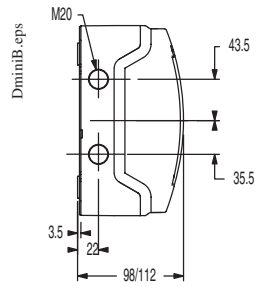
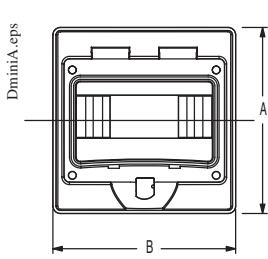
external dimensions (mm)						
height	width	depth	reference	number of modules	number of rows	
150	80	98	<b>82101</b>	3	1	
200	123	112	<b>82102</b>	4	1	
200	159	112	<b>82103</b>	6	1	
200	195	112	<b>82104</b>	8	1	
200	267	112	<b>82105</b>	12	1	

### number of terminal blocks delivered with a box

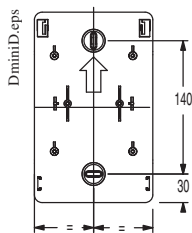
reference	number of modules	number of rows	terminal block		terminal support
			earth	neutral	
<b>82101</b>	3	1	4 holes	4 holes	–
<b>82102</b>	4	1	4 holes	4 holes	2
<b>82103</b>	6	1	8 holes	8 holes	2
<b>82104</b>	8	1	8 holes	8 holes	2
<b>82105</b>	12	1	16 holes	16 holes	2

# modular enclosure MUREVA, IP65

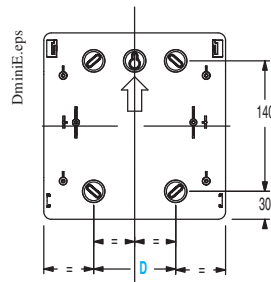
## enclosures mini-ED



3, 4 and 6 modules

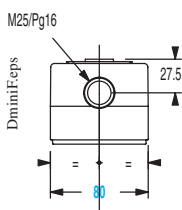


8 and 12 modules

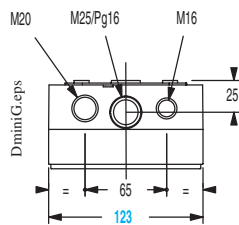


reference	external dimensions (mm)			number of modules	D	weight (g)
	height (A)	width (B)	depth (C)			
82101	150	80	98	3	-	300
82102	200	123	112	4	-	450
82103	200	159	112	6	-	500
82104	200	195	112	8	88	700
82105	200	267	112	12	160	900

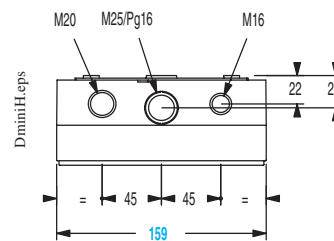
3 modules



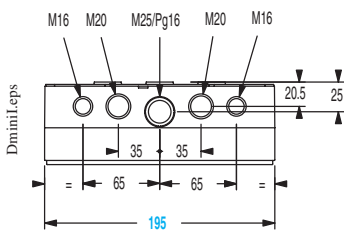
4 modules



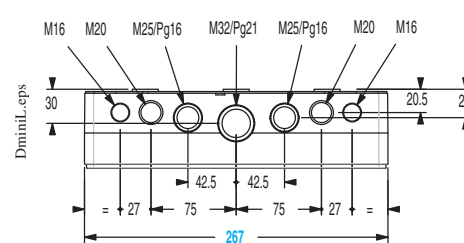
6 modules



8 modules



12 modules



# modular enclosure MUREVA, IP65

## modular enclosure

Weatherproof enclosures for modular switchgear.

Up to 54 modules. With 1, 2 or 3 lines of 12 or 18 modules.

## technical data

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- Resistance to chemicals and atmospheric agents.
- Stainless steel screws.

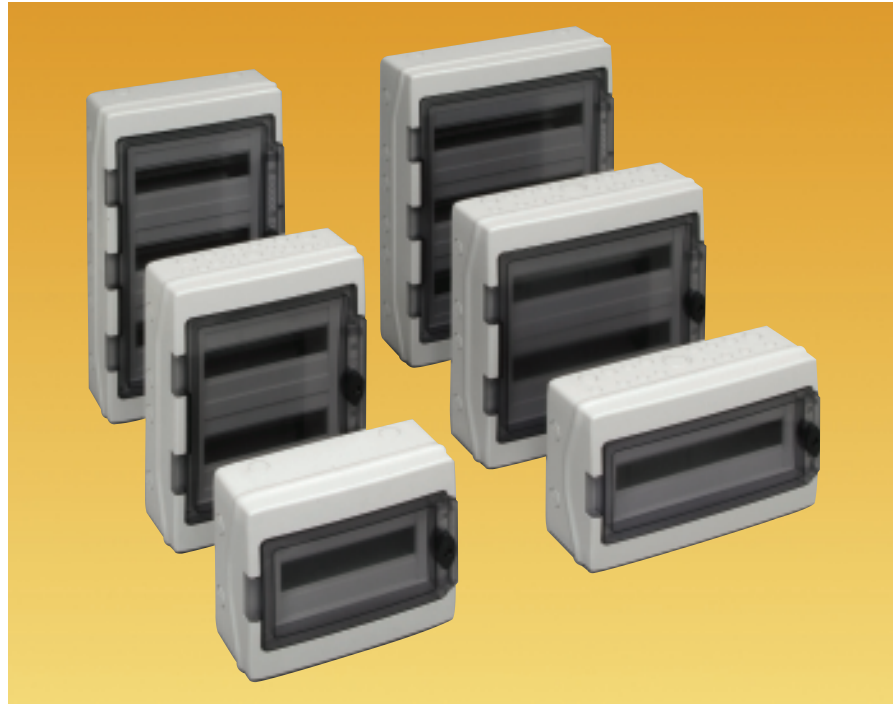
## constructive characteristics

- Reversible front face for opening of door to the left or right.
- Screwed terminal block support.
- Provision of additional neutral or earthing terminals in all models.
- Possibility of coupling two enclosures while maintaining IP65 and allowing the cable passage.
- Back with PG and ISO concentric knock-outs.
- Direct wall fixing by means of the holes in the rear of enclosure or with use of the wall fixing brackets (not included).
- Ergonomic and sure lock that allow the installation of a key for further security.
- Possibility of seal the front face.
- Possibility of adding wiring strap for simplified cabling.

## derived with

- Terminal block support.
- Earth terminal block with green cover, neutral terminal block with blue cover.
- Marking kit.
- Wiring strap.
- Caps for class 2 isolation.
- Blanking plate (5 modules of 18 mm).

modular.tif



## references

external dimensions (mm)					
height	width	depth	reference	number of modules	number of rows
280	340	160	<b>82110</b>	12	1
280	448	160	<b>82120</b>	18	1
460	340	160	<b>82111</b>	24	2
460	448	160	<b>82121</b>	36	2
610	340	160	<b>82112</b>	36	3
610	448	160	<b>82122</b>	54	3

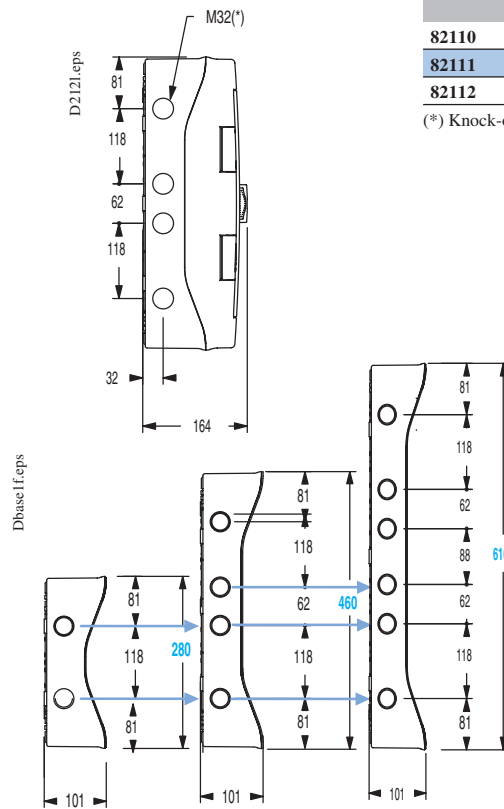
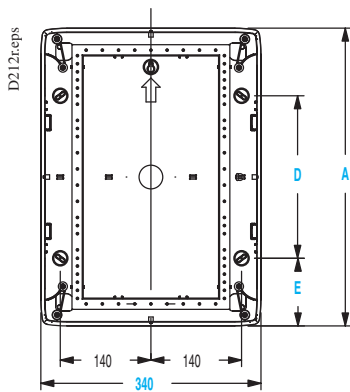
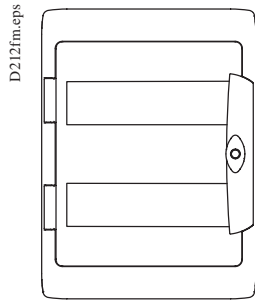
## number of terminal blocks delivered with a box

reference	number of modules	number of rows	terminal block		terminal support
			earth	neutral	
<b>82110</b>	12	1	8 holes	8 holes	2
<b>82120</b>	18	1	16 holes	16 holes	2
<b>82111</b>	24	2	22 holes	22 holes	2
<b>82121</b>	36	2	32 holes	32 holes	2
<b>82112</b>	36	3	32 holes	32 holes	2
<b>82122</b>	54	3	22+22 holes	22+22 holes	4

# modular enclosure MUREVA, IP65

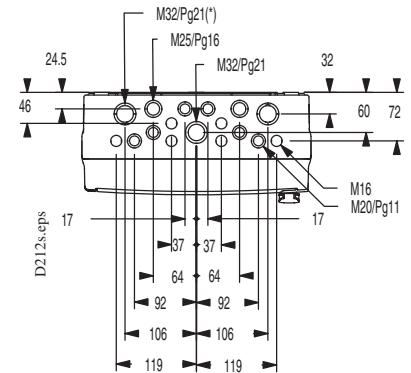
## modular enclosures

### Width 12 modules

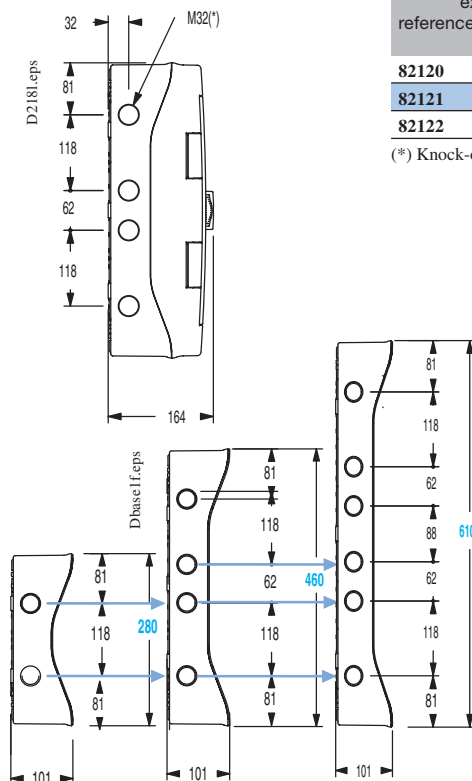
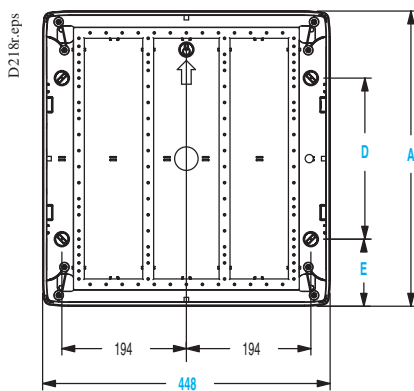
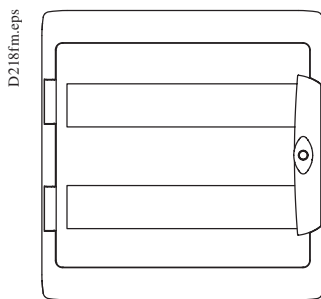


	external dimensions (mm)			number of modules	D	E	weight (g)
	references (A)	height (B)	depth (C)				
<b>82110</b>	280	340	160	12	118	81	1900
<b>82111</b>	460	340	160	24	251	104,5	3100
<b>82112</b>	610	340	160	36	401	104,5	4100

(\*) Knock-outs for coupling enclosures.

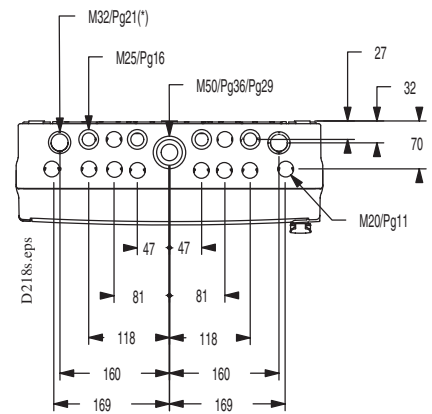


### Width 18 modules



	external dimensions (mm)			number of modules	D	E	weight (g)
	references (A)	height (B)	depth (C)				
<b>82120</b>	280	448	160	18	118	81	2400
<b>82121</b>	460	448	160	36	251	104,5	3850
<b>82122</b>	610	448	160	54	401	104,5	4150

(\*) Knock-outs for coupling enclosures.

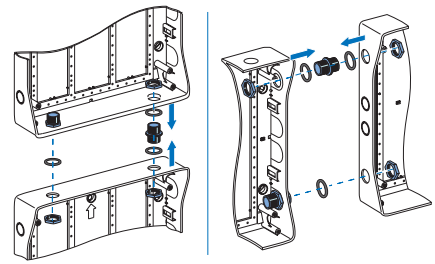


## association kit

- Used for horizontal or vertical coupling of two enclosures with one another while preserving IP65 and allowing the cable passage.
- Composed of 2 sleeves, 4 nuts and 4 joints.



reference	description
82502	association kit

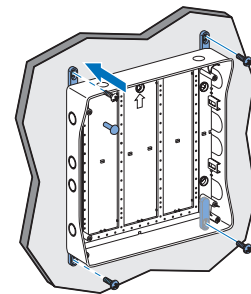


## wall fixing brackets

- Used to fix the enclosures to the wall without using holes in the back of the enclosure.
- Each bracket can be assembled in 3 different positions.
- Set of 4 wall fixing brackets.



reference	description
82501	wall fixing brackets

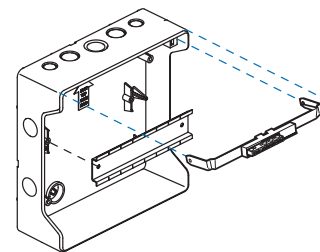


## terminal block support for mini enclosures

- Metallic terminal block support clip-on the bottom of the box.



number of modules	reference
4	82751
6	82752
8	82753
12	82754

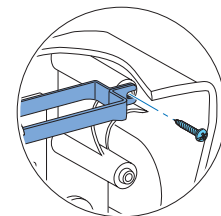


## terminal block support for enclosures onto pins

- Metallic.
- They can be screwed on to the pins at the top or bottom of the enclosure.
- They can be superimposed to double capacity.
- Delivered with screws.

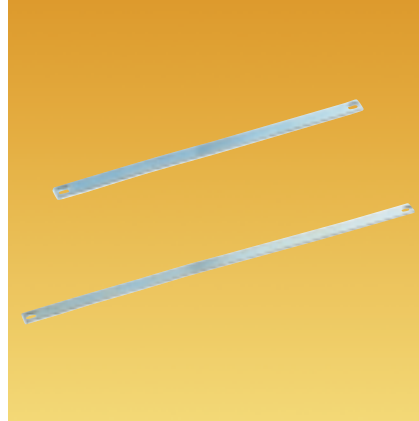


number of modules	reference
8	82763
12	82764
18	82765

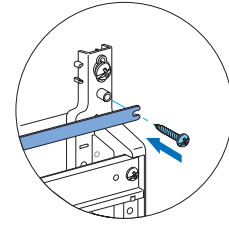


## terminal block support for enclosures onto chassis

- Metallic.
- They can be screwed onto the chassis simplifying the cables connections.
- Delivered with screws.



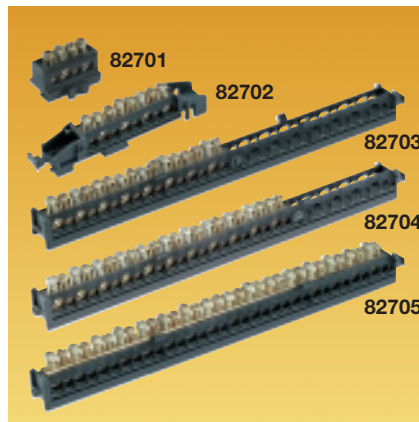
number of modules	reference
12	82774
18	82775



## terminal block

There are 5 references of terminals blocks with different possibilities of assembly:

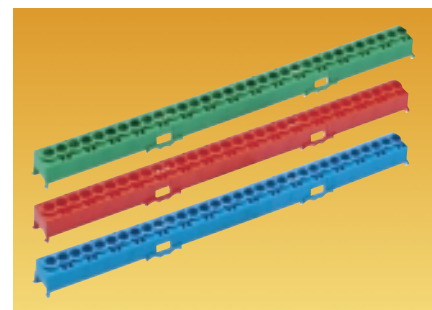
- All models: clipped onto terminal block support.
- 4 holes: clipped by means of dovetails.
- 8 holes: clipped onto the DIN rails, screwed onto the back.



terminal block references	number of holes	composition terminal block section in mm <sup>2</sup>		terminal block width in mm	assembly methods				
		10	16		clipped	clipped	clipped	clipped	
82701	4	2	2	29	✓				
82702	8	4	4	85	✓	✓	✓	✓	
82703	16	8	8	202	✓				
82704	22	11	11	202	✓				
82705	32	16	16	202	✓				

## IP2 covers

- The terminal block can be protected and identified by IP2 coloured (green, red or blue) covers.



number of holes	references		
	green	red	blue
4	82711	82721	82731
8	82712	82722	82732
16, 22, 32	82715	82725	82735

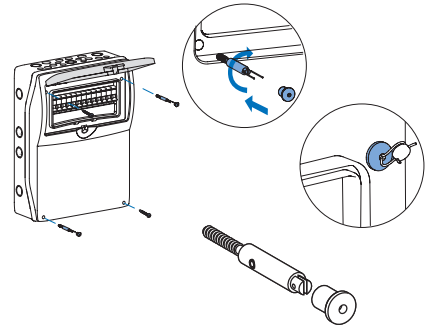
## sealing kit

Sealing kit:

- Used to seal the front face on the back using 2 screws and 2 caps.



reference	description
82559	sealing kit

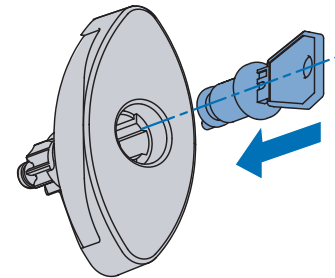


## keylock insert

- These are mounted in the handle without increasing the overall dimensions of the enclosure.
- Three different references to increase safety.

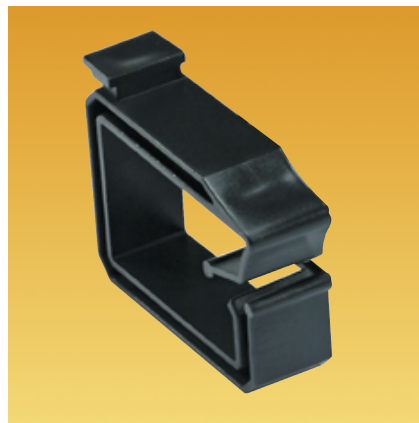


descriptions	reference
Eurolock n° 850	82550
Eurolock n° 851	82551
Eurolock n° 852	82552

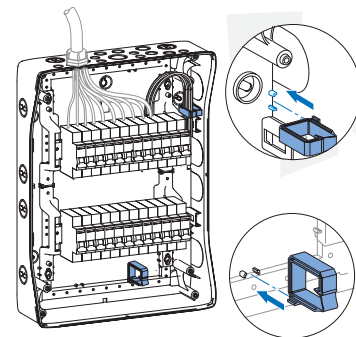


## wiring strap

- Used to guide cables along walls for simplified cabling.
- Clip-on several places at the bottom.

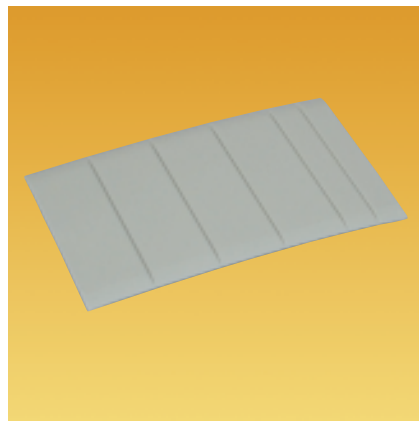


reference	description
82506	wiring strap



## blanking plate

- Set of 10 strips of 5 modules.
- Clipped onto the front plates to cover slots with no devices.
- Color RAL 7035.



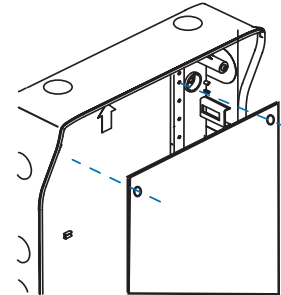
reference	description
82505	blanking plate

## plain chassis

- Metallic.
- Screwed onto the back of the enclosure by means of selftapping screws included with the enclosure.
- Used to fix non-modular devices.

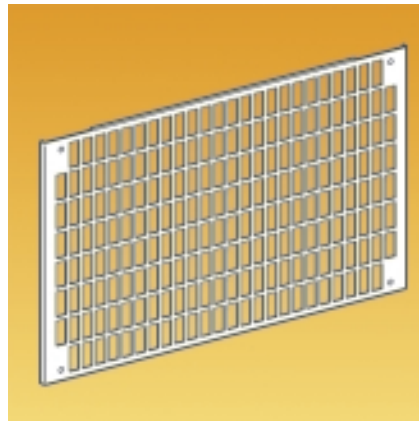


for enclosures (mm)		
height (A)	width (B)	reference
250	150	<b>82604</b>
460	340	<b>82600</b>
460	448	<b>82601</b>
610	340	<b>82602</b>
610	448	<b>82603</b>



## perforated plate

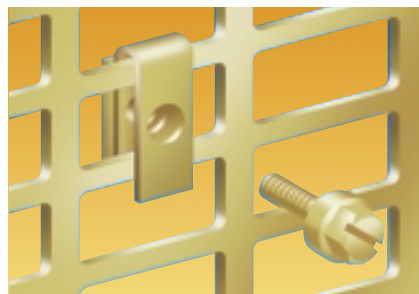
- Screwed onto the back of the enclosure by means of selftapping screws included with the enclosure.
- Used to fix non-modular devices.



for enclosures (mm)		
height (A)	width (B)	reference
250	150	<b>82614</b>
460	340	<b>82610</b>
460	448	<b>82611</b>
610	340	<b>82612</b>
610	448	<b>82613</b>

## clip nut

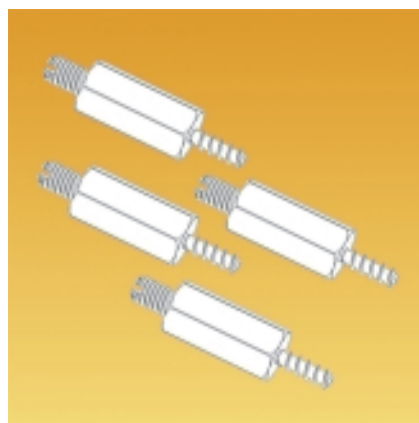
- Clip on perforated plate, for attachment of equipment.



reference	for screw
<b>21163</b>	M3
<b>21164</b>	M4
<b>21165</b>	M5
<b>21166</b>	M6

## selftapping screws

- Set of 4 screws and 4 nuts.



selftapping screws	<b>82609</b>
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**IP67 cable entries**

- n IP67.
- n Conforming to standard EN 50262.
- n Material: EPDM plastic.
- n Adapted to wall thicknesses 1 to 4 mm (0,5 to 2 mm for ref. 08831).
- n Fast no-tool installation.



reference	ISO	cable Ø (mm)	Ø of drilling
08831	M12	3 - 5	13
08832	M16	5 - 7	16
08833	M20	7 - 10	20
08834	M25	10 - 14	24
08835	M32	14 - 20	30
08836	M40	20 - 26	38
08837	M50	26 - 35	48

**IP55 cable entries**

- n IP55.
- n RAL 7035.
- n Material: SBS.



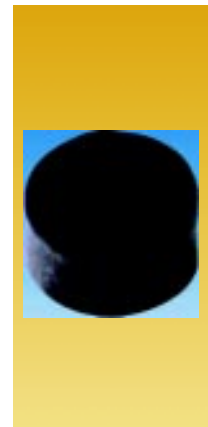
Ø (mm) drilling	cable	references and colours		
		white RAL 9010	ligh grey RAL 7035	grey RAL 7004
23	4 - 20	08121	08111	08131
29	4 - 25	08122	08112	08132
36	4 - 30	-	08113	-
44	4 - 40	-	08114	-

**cable gland**

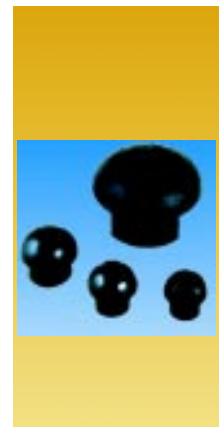
- n IP68, 5 bars.
- n Conforming to standard EN 50262.
- n Grey RAL 7035.
- n Material: PA6, neoprene seal.
- n Operating temperature: -30 °C ... +80 °C and up to +150 °C for short periods.
- n Cable glands are supplied with nuts.
- n Possibility of insert several cables in a single cable gland using the multicable insert.



cable gland



multicable insert



transport plug (for temporary protection of box contents)

Ø	cable gland 1 cable		multicable insert		joint	plug	transport plug
	ref.	Ø min./max. (mm)	ref.	No./Ø (mm)			
M12	08071	3/6.5	-	-	08091	08101	-
M16	08072	4/8	08097	2 3 4	08092	08102	08291
M20	08073	6/12	08098	3 3 4	08093	08103	08292
M25	08074	11/17	08099	4 3 5	08094	08104	08293
M32	08075	15/21	08100	6 3 5	08095	08105	08294
M40	08076	19/28	-	-	08096	08106	08295