

## First numeral

Protection against solid bodies

# IP

0



No protection

1



Protected against solid bodies greater than 50 mm (e.g. involuntary hand contact)

2



Protected against solid bodies greater than 12 mm (e.g. fingers)

3



Protected against solid bodies greater than 2.5 mm (e.g. tools, cables...)

4



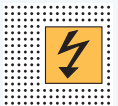
Protected against solid bodies greater than 1 mm (e.g.: small tools, fine cables...)

5



Protected against dust (no harmful deposits)

6



Fully protected against dust

## Second numeral

Protection against liquids

# IP

0



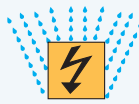
No protection

1



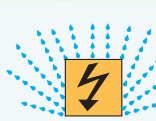
Protected against dripping water (condensation)

2



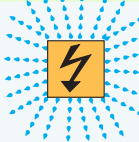
Protected against falling water up to 15° from the vertical

3



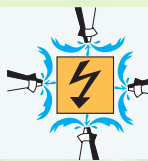
Protected against rain water up to 60° from the vertical

4



Protected against water splashing in all directions.

5



Protected against water jets from all directions

6



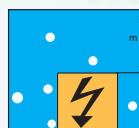
Protected against wave-like water jets from all directions

7



Protected against immersion

8



Protected against the effects of prolonged immersion under water

## Third numeral

Mechanical protection

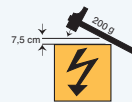
# IK

0



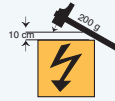
No protection

01



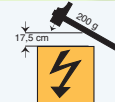
Impact energy 0.150 J.

02



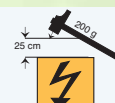
Impact energy 0.200 J.

03



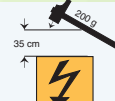
Impact energy 0.350 J.

04



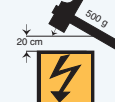
Impact energy 0.500 J.

05



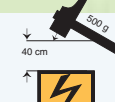
Impact energy 0.700 J.

06



Impact energy 1.00 J.

07



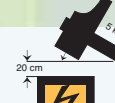
Impact energy 2.00 J.

08



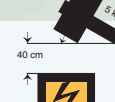
Impact energy 5.00 J.

09



Impact energy 10.00 J.

10



Impact energy 20.00 J.

## Enclosures

HellermannTyton markets a comprehensive range of enclosures for the general installation, contracting and panel building industry. The enclosure range accounts for all aspects of specific materials and IP ratings. Materials include Steel, Stainless Steel, GRP and PVC in wall and floor mounting enclosures. IP ratings range from IP-44 for indoor applications to IP-66 for outdoor applications.

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Front rain gutter avoids the entry of water, oil or liquids which ensures high degree of protection and protects the inside surface when opening the door.



Wall fixing brackets fixed from the outside. Can be placed both horizontally or vertically. Not included as standard supply.



Foamed - polyurethane gasket guarantees water tightness for years.

Perforated door reinforcement profiles allowing fixing of equipment in up to 500 mm high enclosures.



A complete range of mounting plates suitable for most types of installations.



Transparent tempered glass door available and fully watertight, maintaining IP-66 protection.



Embedded cable gland plate and entrance, leveled with the base, with a neoprene seal. Insulated cable gland plates with pre-punched holes for easy cable entry available as accessory.



Built in standard double bar locking system and three points locking for two door enclosures and 1200mm high enclosures.



Back of enclosure with four M8x15 welded studs with built-in spacers for fixing of mounting plate and adjustable support.

Wall fixing holes sealed with plastic plugs to assure the protection degree.

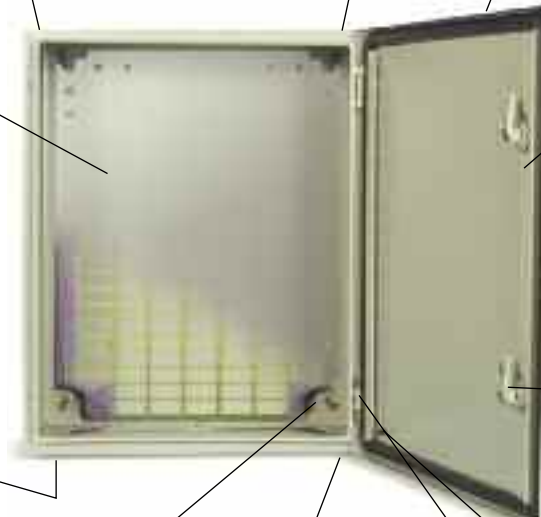


Depth adjustable support with positions every 12.5 mm. Front part drilled to M6 Ø in order to fit mounting plates, internal doors, etc..



Two M6x15 welded earth studs on the back and one M6x15 stud on the door.

Easily reversible door, fitted with two or three invisible hinges allowing 120° opening.



## CRN IP-66

Steel enclosures made from a continuous length of sheet steel double folded at the front, with back welded to the frame. Both externally and internally protected with polyester epoxy resin grey paint to RAL-7032 texturised.

- CRN...KT series include a transparent tempered glass door.
- Mounting plate supports are depth adjustable.
- Reinforced sections in solid doors with drill holes for wiring, from model CRN-54/200 upwards.
- Reversible door, opening 120° in either direction.
- New shortened latch to improve resistance to bending
- Enclosures up to 1000 width single door
- Enclosures up to 1000/1200 width double door



### Enclosures

Height (A)	Width (B)	Depth (C)	Reference	Weight (Kg)*	Reference with Transparent Door	CRN Price	CRN KT Price
250	200	150	CRN-2520/150	2.9	-	£30.65	-
300	250	150	CRN-3025/150	4.2	CRN-3025/150 KT	£31.91	£56.43
300	250	200	CRN-3025/200	4.3	CRN-3025/200 KT	£33.65	£59.66
300	300	150	CRN-33/150	4.2	CRN-33/150 KT	£36.00	£64.77
300	300	200	CRN-33/200	4.9	CRN-33/200 KT	£39.48	£67.37
300	400	200	CRN-34/200	6.0	CRN-34/200 KT	£42.42	£78.56
400	300	150	CRN-43/150	5.6	CRN-43/150 KT	£38.88	£73.33
400	300	200	CRN-43/200	5.8	CRN-43/200 KT	£43.75	£77.69
400	400	200	CRN-44/200	8	CRN-44/200 KT	£46.98	£86.88
400	600	250	CRN-46/250	10	CRN-46/250 KT	£64.04	£102.30
400	600	300	CRN-46/300	11.5	-	£82.86	£101.01
500	400	150	CRN-54/150	7.5	CRN-54/150 KT	£49.97	£88.75
500	400	200	CRN-54/200	8.6	CRN-54/200 KT	£57.25	£93.85
500	400	250	CRN-54/250	9.5	CRN-54/250 KT	£64.71	£99.31
500	500	250	CRN-55/250	11	CRN-55/250 KT	£76.14	£113.99
600	400	150	CRN-64/150	8.5	CRN-64/150 KT	£54.42	£93.47
600	400	200	CRN-64/200	9.8	CRN-64/200 KT	£58.06	£98.08
600	400	250	CRN-64/250	10.8	CRN-64/250 KT	£62.69	£104.79
600	500	150	CRN-65/150	10.2	CRN-65/150 KT	£58.41	£104.54
600	500	200	CRN-65/200	12	CRN-65/200 KT	£68.14	£107.08
600	500	250	CRN-65/250	12.3	CRN-65/250 KT	£70.39	£116.96
600	600	200	CRN-66/200	14	-	£69.68	£107.08
600	600	250	CRN-66/250	15	CRN-66/250 KT	£84.46	£131.70
600	600	300	CRN-66/300	16.3	CRN-66/300 KT	£95.14	£133.62
600	800	300	CRN-68/300	22	CRN-68/300 KT	£107.74	£136.11
700	500	200	CRN-75/200	14.3	CRN-75/200 KT	£76.01	£115.59
700	500	250	CRN-75/250	15.5	CRN-75/250 KT	£81.73	£122.93
800	600	200	CRN-86/200	18.7	CRN-86/200 KT	£82.09	£160.59
800	600	250	CRN-86/250	20	CRN-86/250 KT	£97.29	£168.43
800	600	300	CRN-86/300	21.5	CRN-86/300 KT	£109.62	£170.29
800	600	400	CRN-86/400	27	CRN-86/400 KT	£163.88	£233.73
800	800	200	CRN-88/200	26	CRN-88/200 KT	£128.88	£214.54
800	800	300	CRN-88/300	30	CRN-88/300 KT	£133.59	£233.43
800	1000	300	CRN-810/300**	33	-	£201.18	-
1000	600	250	CRN-106/250	27	CRN-106/250 KT	£120.72	£218.15
1000	600	300	CRN-106/300	28	CRN-106/300 KT	£137.79	£231.44
1000	800	250	CRN-108/250	34.5	CRN-108/250 KT	£130.87	£249.34
1000	800	300	CRN-108/300	35	CRN-108/300 KT	£147.64	£270.96
1000	800	400	CRN-108/400	43	CRN-108/400 KT	£198.86	£312.73
1000	1000	300	CRN-1010/300**	46.7	CRN-1010/300 KT	£211.95	£363.07
1000	1200	300	CRN-1012/300**	54	CRN-1012/300 KT	£234.05	-
1200	800	300	CRN-128/300**	44.8	CRN-128/300 KT	£190.36	£342.06
1200	800	400	CRN-128/400	50	CRN-128/400 KT	£273.38	£403.96
1200	1000	300	CRN-1210/300**	53.4	-	£242.24	-
1200	1000	400	CRN-1210/400**	60	-	£368.28	-

\*\* Enclosures with 3 point lock

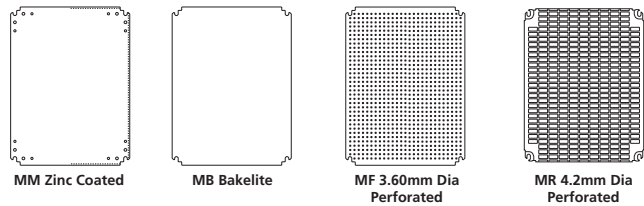
\*\* IP55 Rated



### Mounting Plates for CRN

A complete range of mounting plates comprising of 4 versions able to provide all the mountings needed for this installation system.

- Galvanised steel plates with drill holes for fitting accessories and an earth connection
- Insulating plates in bakelite
- Perforated plates in galvanised steel, drilled with 3.6 mm Ø holes, 12.5 mm apart. 4.2 Ø self-tapping tapping or M4 three-lobe screws can be used
- Universal plates for rapid cabling, manufactured in zinc dichromated steel
- The arrangement of the drill holes combined with the positioning of the nuts cover all the fixing point distances
- MM version available from stock

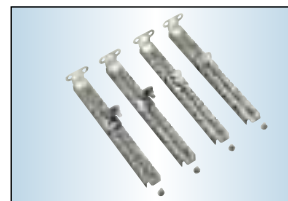


Mounting Plates		MM ZINC COATED			MB BAKELITE			Price MM	Price MB
Height (A)	Width (B)	Reference	Thickness (mm)	Weight (Kg)	Reference	Thickness (mm)	Weight (Kg)		
250	200	MM-2520	2	0,4	MB-2520	4	0,13	£1.87	£5.36
300	250	MM-3025	2	0,6	MB-3025	4	0,2	£2.93	£4.24
300	200	MM-32	2	0,8	-	-	-	£2.61	N/A
300	300	MM-33	2	1,2	MB-33	4	0,3	£3.46	£9.46
300	400	MM-34	2	1,6	MB-34	4	0,5	£4.06	£9.46
400	300	MM-43	2	1,6	MB-43	4	0,5	£4.68	£9.46
400	400	MM-44	2	2,2	MB-44	4	0,7	£6.34	£19.71
400	600	MM-46	2	3,1	MB-46	4	1,1	£9.91	£15.50
500	400	MM-54	2	2,5	MB-54	4	0,9	£8.38	£16.36
500	500	MM-55	2	3,7	MB-55	4	1,2	£11.96	£19.71
600	400	MM-64	2	3,1	MB-64	4	1,1	£10.42	£20.16
600	500	MM-65	2	4	MB-65	4	1,4	£11.72	£32.57
600	600	MM-66	2	5,5	MB-66	4	1,7	£13.52	£44.01
600	800	MM-68	2,5	9,9	MB-68	4	2,3	£26.32	£34.06
700	500	MM-75	2	4,6	MB-75	4	1,7	£15.72	£66.35
800	600	MM-86	2,5	9,9	MB-86	4	2,3	£24.44	£62.12
800	800	MM-88	2,5	13,6	MB-88	5	4,5	£28.79	£52.46
800	1000	MM-810	2,5	16,9	MB-810	5	5,7	£38.17	£57.20
1000	600	MM-106	2,5	12,6	MB-106	5	4,2	£29.92	£59.17
1000	800	MM-108	2,5	16,9	MB-108	5	5,7	£35.64	£66.35
1000	1000	MM-1010	2,5	18,6	MB-1010	5	7,1	£50.44	£73.45
1000	1200	MM-1012	2,5	21,7	MB-1012	5	8,3	£57.74	£80.42
1200	800	MM-128	2,5	17,8	MB-128	5	6,8	£48.88	£72.08
1200	1000	MM-1210	2,5	21,7	MB-1210	5	8,3	£59.07	£80.95

### Depth Adjustable Supports

For 200, 250, 300 and 400mm depth enclosures. The different positions allow the adjusting of mounting plates and accessories every 12.5mm. Front with drilling for 5.5mm Ø self-tapping screws for fixing of general equipment.

Depth Adjustable Supports			
Reference	Enclosure Depth	Qty	Price
SDCR 200	200	Set of 4	£20.32
SDCR 250	250	Set of 4	£21.32
SDCR 300	300	Set of 4	£22.36
SDCR 400	400	Set of 4	£22.88



### Wall fixing kit

Manufactured in passivated galvanised steel. Fitted from the outside. Can be mounted vertically or horizontally. Not included in the standard order.

Wall Fixing Kit		
Reference	Description	Price
PFCR	Standard Fixing Kit	£3.94



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0



No protection

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Protected against solid bodies greater than 50 mm (e.g. involuntary hand contact)

2



Protected against solid bodies greater than 12 mm (e.g. fingers)

3



Protected against solid bodies greater than 2.5 mm (e.g. tools, cables...)

4



Protected against solid bodies greater than 1 mm (e.g.: small tools, fine cables...)

5



Protected against dust (no harmful deposits)

6



Fully protected against dust

## Second numeral

Protection against liquids

# IP

0



No protection

1



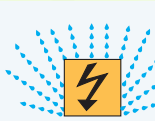
Protected against dripping water (condensation)

2



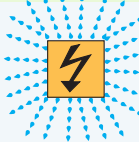
Protected against falling water up to 15° from the vertical

3



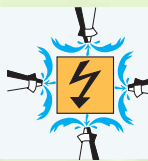
Protected against rain water up to 60° from the vertical

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Protected against water splashing in all directions.

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Protected against water jets from all directions

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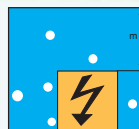
Protected against wave-like water jets from all directions

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Protected against immersion

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Protected against the effects of prolonged immersion under water

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Mechanical protection

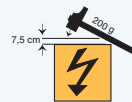
# IK

0



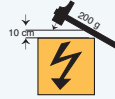
No protection

01



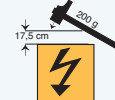
Impact energy 0.150 J.

02



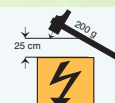
Impact energy 0.200 J.

03



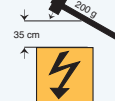
Impact energy 0.350 J.

04



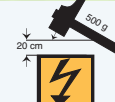
Impact energy 0.500 J.

05



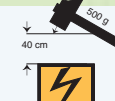
Impact energy 0.700 J.

06



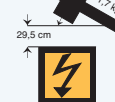
Impact energy 1.00 J.

07



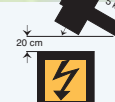
Impact energy 2.00 J.

08



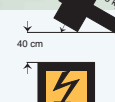
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A complete range of mounting plates suitable for most types of installations.



Transparent tempered glass door available and fully watertight, maintaining IP-66 protection.



Embedded cable gland plate and entrance, leveled with the base, with a neoprene seal. Insulated cable gland plates with pre-punched holes for easy cable entry available as accessory.



Built in standard double bar locking system and three points locking for two door enclosures and 1200mm high enclosures.



Back of enclosure with four M8x15 welded studs with built-in spacers for fixing of mounting plate and adjustable support.

Wall fixing holes sealed with plastic plugs to assure the protection degree.

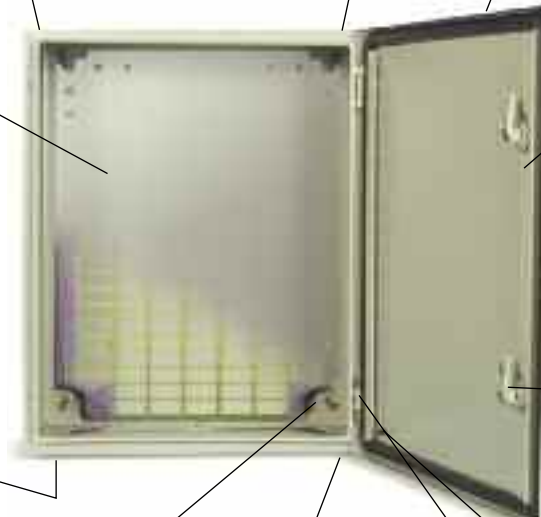


Depth adjustable support with positions every 12.5 mm. Front part drilled to M6 Ø in order to fit mounting plates, internal doors, etc..



Two M6x15 welded earth studs on the back and one M6x15 stud on the door.

Easily reversible door, fitted with two or three invisible hinges allowing 120° opening.



## CRN IP-66

Steel enclosures made from a continuous length of sheet steel double folded at the front, with back welded to the frame.

Both externally and internally protected with polyester epoxy resin grey paint to RAL-7032 texturised.

- CRN...KT series include a transparent tempered glass door.
- Mounting plate supports are depth adjustable.
- Reinforced sections in solid doors with drill holes for wiring, from model CRN-54/200 upwards.
- Reversible door, opening 120° in either direction.
- New shortened latch to improve resistance to bending
- Enclosures up to 1000 width single door
- Enclosures up to 1000/1200 width double door



### Enclosures

Height (A)	Width (B)	Depth (C)	Reference	Weight (Kg)*	Reference with Transparent Door	CRN Price	CRN KT Price
250	200	150	CRN-2520/150	2.9	-	£30.65	-
300	250	150	CRN-3025/150	4.2	CRN-3025/150 KT	£31.91	£56.43
300	250	200	CRN-3025/200	4.3	CRN-3025/200 KT	£33.65	£59.66
300	300	150	CRN-33/150	4.2	CRN-33/150 KT	£36.00	£64.77
300	300	200	CRN-33/200	4.9	CRN-33/200 KT	£39.48	£67.37
300	400	200	CRN-34/200	6.0	CRN-34/200 KT	£42.42	£78.56
400	300	150	CRN-43/150	5.6	CRN-43/150 KT	£38.88	£73.33
400	300	200	CRN-43/200	5.8	CRN-43/200 KT	£43.75	£77.69
400	400	200	CRN-44/200	8	CRN-44/200 KT	£46.98	£86.88
400	600	250	CRN-46/250	10	CRN-46/250 KT	£64.04	£102.30
400	600	300	CRN-46/300	11.5	-	£82.86	£101.01
500	400	150	CRN-54/150	7.5	CRN-54/150 KT	£49.97	£88.75
500	400	200	CRN-54/200	8.6	CRN-54/200 KT	£57.25	£93.85
500	400	250	CRN-54/250	9.5	CRN-54/250 KT	£64.71	£99.31
500	500	250	CRN-55/250	11	CRN-55/250 KT	£76.14	£113.99
600	400	150	CRN-64/150	8.5	CRN-64/150 KT	£54.42	£93.47
600	400	200	CRN-64/200	9.8	CRN-64/200 KT	£58.06	£98.08
600	400	250	CRN-64/250	10.8	CRN-64/250 KT	£62.69	£104.79
600	500	150	CRN-65/150	10.2	CRN-65/150 KT	£58.41	£104.54
600	500	200	CRN-65/200	12	CRN-65/200 KT	£68.14	£107.08
600	500	250	CRN-65/250	12.3	CRN-65/250 KT	£70.39	£116.96
600	600	200	CRN-66/200	14	-	£69.68	£107.08
600	600	250	CRN-66/250	15	CRN-66/250 KT	£84.46	£131.70
600	600	300	CRN-66/300	16.3	CRN-66/300 KT	£95.14	£133.62
600	800	300	CRN-68/300	22	CRN-68/300 KT	£107.74	£136.11
700	500	200	CRN-75/200	14.3	CRN-75/200 KT	£76.01	£115.59
700	500	250	CRN-75/250	15.5	CRN-75/250 KT	£81.73	£122.93
800	600	200	CRN-86/200	18.7	CRN-86/200 KT	£82.09	£160.59
800	600	250	CRN-86/250	20	CRN-86/250 KT	£97.29	£168.43
800	600	300	CRN-86/300	21.5	CRN-86/300 KT	£109.62	£170.29
800	600	400	CRN-86/400	27	CRN-86/400 KT	£163.88	£233.73
800	800	200	CRN-88/200	26	CRN-88/200 KT	£128.88	£214.54
800	800	300	CRN-88/300	30	CRN-88/300 KT	£133.59	£233.43
800	1000	300	CRN-810/300**	33	-	£201.18	-
1000	600	250	CRN-106/250	27	CRN-106/250 KT	£120.72	£218.15
1000	600	300	CRN-106/300	28	CRN-106/300 KT	£137.79	£231.44
1000	800	250	CRN-108/250	34.5	CRN-108/250 KT	£130.87	£249.34
1000	800	300	CRN-108/300	35	CRN-108/300 KT	£147.64	£270.96
1000	800	400	CRN-108/400	43	CRN-108/400 KT	£198.86	£312.73
1000	1000	300	CRN-1010/300**	46.7	CRN-1010/300 KT	£211.95	£363.07
1000	1200	300	CRN-1012/300**	54	CRN-1012/300 KT	£234.05	-
1200	800	300	CRN-128/300**	44.8	CRN-128/300 KT	£190.36	£342.06
1200	800	400	CRN-128/400	50	CRN-128/400 KT	£273.38	£403.96
1200	1000	300	CRN-1210/300**	53.4	-	£242.24	-
1200	1000	400	CRN-1210/400**	60	-	£368.28	-

\*\* Enclosures with 3 point lock

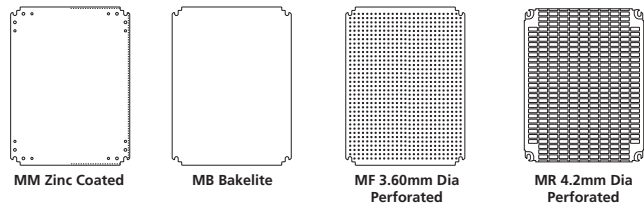
\*\* IP55 Rated



### Mounting Plates for CRN

A complete range of mounting plates comprising of 4 versions able to provide all the mountings needed for this installation system.

- Galvanised steel plates with drill holes for fitting accessories and an earth connection
- Insulating plates in bakelite
- Perforated plates in galvanised steel, drilled with 3.6 mm Ø holes, 12.5 mm apart. 4.2 Ø self-tapping tapping or M4 three-lobe screws can be used
- Universal plates for rapid cabling, manufactured in zinc dichromated steel
- The arrangement of the drill holes combined with the positioning of the nuts cover all the fixing point distances
- MM version available from stock

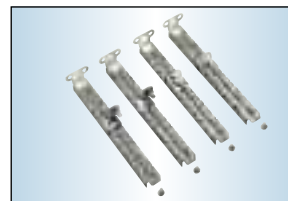


Mounting Plates		MM ZINC COATED			MB BAKELITE			Price MM	Price MB
Height (A)	Width (B)	Reference	Thickness (mm)	Weight (Kg)	Reference	Thickness (mm)	Weight (Kg)		
250	200	MM-2520	2	0,4	MB-2520	4	0,13	£1.87	£5.36
300	250	MM-3025	2	0,6	MB-3025	4	0,2	£2.93	£4.24
300	200	MM-32	2	0,8	-	-	-	£2.61	N/A
300	300	MM-33	2	1,2	MB-33	4	0,3	£3.46	£9.46
300	400	MM-34	2	1,6	MB-34	4	0,5	£4.06	£9.46
400	300	MM-43	2	1,6	MB-43	4	0,5	£4.68	£9.46
400	400	MM-44	2	2,2	MB-44	4	0,7	£6.34	£19.71
400	600	MM-46	2	3,1	MB-46	4	1,1	£9.91	£15.50
500	400	MM-54	2	2,5	MB-54	4	0,9	£8.38	£16.36
500	500	MM-55	2	3,7	MB-55	4	1,2	£11.96	£19.71
600	400	MM-64	2	3,1	MB-64	4	1,1	£10.42	£20.16
600	500	MM-65	2	4	MB-65	4	1,4	£11.72	£32.57
600	600	MM-66	2	5,5	MB-66	4	1,7	£13.52	£44.01
600	800	MM-68	2,5	9,9	MB-68	4	2,3	£26.32	£34.06
700	500	MM-75	2	4,6	MB-75	4	1,7	£15.72	£66.35
800	600	MM-86	2,5	9,9	MB-86	4	2,3	£24.44	£62.12
800	800	MM-88	2,5	13,6	MB-88	5	4,5	£28.79	£52.46
800	1000	MM-810	2,5	16,9	MB-810	5	5,7	£38.17	£57.20
1000	600	MM-106	2,5	12,6	MB-106	5	4,2	£29.92	£59.17
1000	800	MM-108	2,5	16,9	MB-108	5	5,7	£35.64	£66.35
1000	1000	MM-1010	2,5	18,6	MB-1010	5	7,1	£50.44	£73.45
1000	1200	MM-1012	2,5	21,7	MB-1012	5	8,3	£57.74	£80.42
1200	800	MM-128	2,5	17,8	MB-128	5	6,8	£48.88	£72.08
1200	1000	MM-1210	2,5	21,7	MB-1210	5	8,3	£59.07	£80.95

### Depth Adjustable Supports

For 200, 250, 300 and 400mm depth enclosures. The different positions allow the adjusting of mounting plates and accessories every 12.5mm. Front with drilling for 5.5mm Ø self-tapping screws for fixing of general equipment.

Depth Adjustable Supports			
Reference	Enclosure Depth	Qty	Price
SDCR 200	200	Set of 4	£20.32
SDCR 250	250	Set of 4	£21.32
SDCR 300	300	Set of 4	£22.36
SDCR 400	400	Set of 4	£22.88



### Wall fixing kit


Manufactured in passivated galvanised steel. Fitted from the outside. Can be mounted vertically or horizontally. Not included in the standard order.


Wall Fixing Kit		
Reference	Description	Price
PFCR	Standard Fixing Kit	£3.94

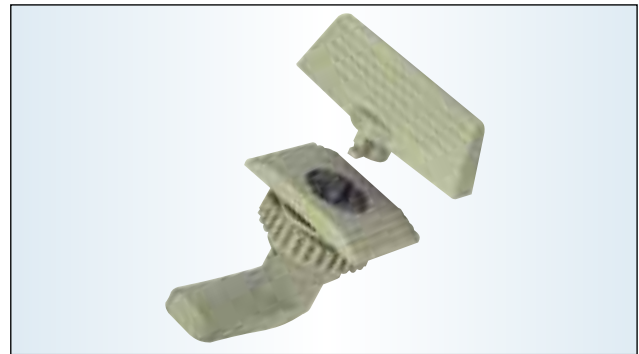


## Locks for CRN

### Operated by:

- Key LDB 5  (DIN 43668)


Converting The Standard To A Standardised Variant			
Characteristics	Key Operated Product Ref	Reference	Price
Full Key Operated Lock with Key 405		CL/CRN	£5.95
6 mm Square Key Lock	- . . LC-7	TC 6/CRN	£5.75
7 mm Square Key Lock	- . . LC-7	TC 7/CRN	£5.75
8 mm Square Key Lock	- . . LC-8	TC 8/CRN	£5.75
6 mm Triangular Key Lock	: . . LT-6,5	TT 6/CRN	£9.55
7 mm Triangular Key Lock	: . . LT-8	TT 7/CRN	£5.60
8 mm Triangular Key Lock	: . . LT-8	TT 8/CRN	£5.60
Stainless Steel Padlock		KPLM	£10.92
Padlock Transformation		CBCRN	£19.22
Standard Double Bar Lock	- : .	CDB/CRN	£3.07





## Triple Action Locks for CRN Enclosures


Standard two-bar lock for normal door and KT transparent door versions of **CRN 128/300** and **CRN 1210/300** models.

### Operated by:

- Key LDB 5  (DIN 43668)

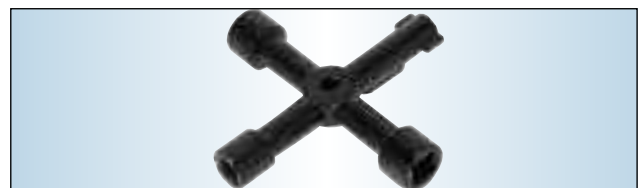
Conversion Of Standard Catch To Standardised Variants In Enclosures Fitted With A Triple Action Catch			
Characteristics	Key Operated Product Ref	Reference	Price
6 mm Square Key Lock	- . . LC-7	TC 6/ML	£9.81
7 mm Square Key Lock	- . . LC-7	TC 7/ML	£9.47
8 mm Square Key Lock	- . . LC-8	TC 8/ML	£9.81
7 mm Triangular Key Lock	: . . LT-8	TT 7/ML	£9.52
8 mm Triangular Key Lock	: . . LT-8	TT 8/ML	£9.52
Handle Lock		TS/ML	£23.88
Handle Lock with key		TL/ML	£31.10



Conversion Of Standard Catch To Retractable Triple Action Model With Various Types Of Lock			
Characteristics	Key Operated Product Ref	Reference	Price
Two Bar Lock	 LDB 5	TEDB/ML	£44.87
6 mm Square Key Lock	- . . LC-7	TEC 6/ML	£44.84
7 mm Square Key Lock	- . . LC-7	TEC 7/ML	£44.84
8 mm Square Key Lock	- . . LC-8	TEC 8/ML	£43.53
7 mm Triangular Key Lock	: . . LT-8	TET 7/ML	£44.84
8 mm Triangular Key Lock	: . . LT-8	TET 8/ML	£45.28
Locking Catch with 405 Type Key	- : .	TEL/ML	£42.59
Locking Catch with Strengthened Key	- : .	TER/ML	£60.60





Spare Keys		
Characteristics	Reference	Price
Key Type	405	£1.08
6mm Square	LC7	£3.72
7mm Square	LC7	£3.72
8mm Square	LC8	£3.72
7mm Triangular	LT6-5	£3.72
8mm Triangular	LT8	£3.72
Wing	LDB5	£2.90
4 Way Utility Key	MS134	£5.79

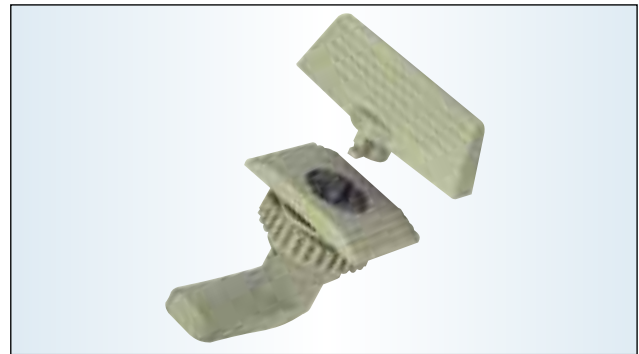


## Locks for CRN

### Operated by:

- Key LDB 5  (DIN 43668)


Converting The Standard To A Standardised Variant			
Characteristics	Key Operated Product Ref	Reference	Price
Full Key Operated Lock with Key 405		CL/CRN	£5.95
6 mm Square Key Lock	- . . LC-7	TC 6/CRN	£5.75
7 mm Square Key Lock	- . . LC-7	TC 7/CRN	£5.75
8 mm Square Key Lock	- . . LC-8	TC 8/CRN	£5.75
6 mm Triangular Key Lock	: . . LT-6,5	TT 6/CRN	£9.55
7 mm Triangular Key Lock	: . . LT-8	TT 7/CRN	£5.60
8 mm Triangular Key Lock	: . . LT-8	TT 8/CRN	£5.60
Stainless Steel Padlock		KPLM	£10.92
Padlock Transformation		CBCRN	£19.22
Standard Double Bar Lock	- : .	CDB/CRN	£3.07





## Triple Action Locks for CRN Enclosures



Standard two-bar lock for normal door and KT transparent door versions of **CRN 128/300** and **CRN 1210/300** models.

### Operated by:

- Key LDB 5  (DIN 43668)

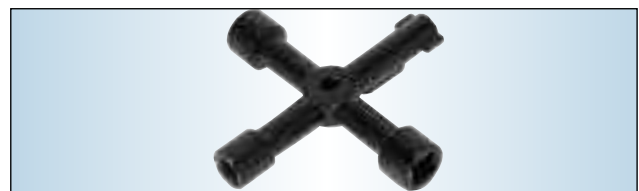
Conversion Of Standard Catch To Standardised Variants In Enclosures Fitted With A Triple Action Catch			
Characteristics	Key Operated Product Ref	Reference	Price
6 mm Square Key Lock	- . . LC-7	TC 6/ML	£9.81
7 mm Square Key Lock	- . . LC-7	TC 7/ML	£9.47
8 mm Square Key Lock	- . . LC-8	TC 8/ML	£9.81
7 mm Triangular Key Lock	: . . LT-8	TT 7/ML	£9.52
8 mm Triangular Key Lock	: . . LT-8	TT 8/ML	£9.52
Handle Lock		TS/ML	£23.88
Handle Lock with key		TL/ML	£31.10



Conversion Of Standard Catch To Retractable Triple Action Model With Various Types Of Lock			
Characteristics	Key Operated Product Ref	Reference	Price
Two Bar Lock	 LDB 5	TEDB/ML	£44.87
6 mm Square Key Lock	- . . LC-7	TEC 6/ML	£44.84
7 mm Square Key Lock	- . . LC-7	TEC 7/ML	£44.84
8 mm Square Key Lock	- . . LC-8	TEC 8/ML	£43.53
7 mm Triangular Key Lock	: . . LT-8	TET 7/ML	£44.84
8 mm Triangular Key Lock	: . . LT-8	TET 8/ML	£45.28
Locking Catch with 405 Type Key	- : .	TEL/ML	£42.59
Locking Catch with Strengthened Key		TER/ML	£60.60



Spare Keys		
Characteristics	Reference	Price
Key Type	405	£1.08
6mm Square	LC7	£3.72
7mm Square	LC7	£3.72
8mm Square	LC8	£3.72
7mm Triangular	LT6-5	£3.72
8mm Triangular	LT8	£3.72
Wing	LDB5	£2.90
4 Way Utility Key	MS134	£5.79



## Canopies

Metal canopies, protected internally and externally with textured light grey polyester epoxy resin, to RAL 7032.

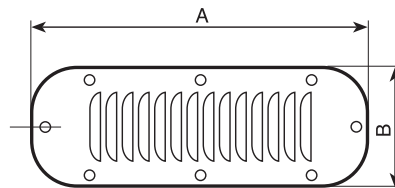


Canopies			
Reference	Width	Depth	Price
TJ-2015	200	150	£24.40
TJ-2515	250	150	£47.22
TJ-2520	250	200	£24.79
TJ-3015	300	150	£25.97
TJ-3020	300	200	£26.10
TJ-4015	400	150	£28.17
TJ-4020	400	200	£27.78
TJ-4025	400	250	£28.63
TJ-5015	500	150	£30.19
TJ-5020	500	200	£26.62
TJ-5025	500	250	£30.33
TJ-6020	600	200	£34.68
TJ-6025	600	250	£34.23
TJ-6040	600	400	£42.90
TJ-8020	800	200	£33.66
TJ-8025	800	250	£41.70
TJ-8030	800	300	£50.24
TJ-8040	800	400	£68.02
TJ-10030	1000	300	£58.82
TJ-10040	1000	400	£104.23

## Louvre Plates

To be fitted on any surface of the enclosure for internal ventilation. Colour RAL-7032 texturised.

Louvre Plates			
Reference	A	B	Price
TR-1	144	62	£2.68
TR-2	208	90	£4.64
TR-3	244	90	£5.67
TR-4	345	118	£7.47
TR-5	345	148	£7.77
TR-6	445	148	£8.48



## Internal door

Set of internal doors designed to attach directly to the enclosure or to the adjustable SDCR supports. Enter positioning of the mounting plate by making it depth adjustable. Finished in textured polyester-epoxy paint, colour RAL 7032.

Internal Door			
Reference	Height	Width	Price
PIN 43	400	300	£44.45
PIN 54	500	400	£49.86
PIN 64	600	400	£53.49
PIN 75	700	500	£57.60
PIN 86	800	600	£69.25
PIN 106	1000	600	£75.49
PIN 108	1000	800	£86.97
PIN 128	1200	800	£120.14



## Spray Paint

Spray Paint		
Reference	Features	Price
BPA-7032	Colour RAL-7032 Contents 150 gr.	£10.95



### CRSX IP66

Stainless steel enclosures are particularly suitable for corrosive environments and installations requiring strict hygiene. They are ideal for the chemical, petrochemical and agrofoods industries etc.

- Monobloc IP66 enclosures manufactured in AISI304 stainless steel. On request, these enclosures can be manufactured in AISI304L stainless steel (resistant to highly corrosive organic agents) or AISI316 stainless steel (resistant to concentrated acids and halides) for particularly hostile environments
- AST brush finish, giving an excellent surface and anti-corrosion properties
- Range of sizes comprising 14 different models. Wide range of accessories compatible with the CRN range
- CMOX range in stainless steel also available, up to 2000 high x 1200 wide x 500 deep (mm)
- Mounting plates see page 96

CRSX IP-65 Stainless Steel Wall Mounted Enclosure							
External Dimensions			Reference	No.	No.	Weight	Price
Height	Width	Depth		Locks	Hinges	(Kg)	
300	200	150	CRSX 32/150	1	2	3,9	£119.24
300	250	150	CRSX 3025/150	1	2	4,8	£130.86
300	300	150	CRSX 33/150	1	2	5	£155.16
400	300	150	CRSX 43/150	2	2	5,7	£155.17
400	300	200	CRSX 43/200	2	2	6,7	£184.75
400	400	200	CRSX 44/200	2	2	7	£208.82
500	400	200	CRSX 54/200	2	2	9,2	£232.81
600	400	200	CRSX 64/200	2	2	10,7	£258.60
600	600	250	CRSX 66/250	2	2	14	£371.58
700	500	250	CRSX 75/250	2	2	18,5	£373.22
800	600	250	CRSX 86/250	2	2	23,5	£439.69
800	800	300	CRSX 88/300	2	2	31	£598.58
1000	800	300	CRSX 108/300	2	3	38,5	£672.21
1200	800	300	CRSX 128/300	2	3	44	£747.03

### Wall fixing kit

Set of four stainless steel pieces not included as standard.

Wall Fixing Kit		
Reference	Description	Price
PFCX	Standard Fixing Kit	£21.00

### Locks For CRSX Enclosures

Converting The Standard To A Standardised Variant			
Characteristics	Key	Reference	Price
Stainless steel 6 mm square key lock	• • LC-7	TC 6/CSX	£14.08
Stainless steel 7 mm square key lock	• • • LC-7	TC 7/CSX	£13.28
Stainless steel 8 mm triangular key lock	• • • • LT-8	TT 8/CSX	£12.16
405 key lock	• • • • CL	CL/CSX	£19.07





A complete range of full or partial mounting plates suitable for most types of installations.



Inside view of the 2 mm thick door with detail of 15 x 20 cross section reinforcement frame with 5 and 10 mm drilling every 25 mm.



Detail of templated glass fixing.



Standard flat lock system for CMO enclosures. Different lock transformations available.

Two doors enclosures with an internal locking system to ensure the tightening.



A complete system to earth the enclosure and components.



#### Material, Treatment and Finish

Enclosure profiles made of 1.5 mm thick galvanised steel.

Plain sheet for panels painted with polyester-epoxy resin, following the process: degreasing, passivating, drying, resin painting and polymerization.

All this treatment ensures a perfect adherence of the paint and ensures for all the cubicle a greater protection in harsh environments and whenever drilling is undertaken.

#### Easy Access

To the inside of the cubicle through removable uprights (even with the unit already assembled) which ensures a great level of accessibility and makes working inside the cubicle easier.

### CMO IP-55 Floor Standing Enclosure

Monobloc construction steel enclosure systems with side panels manufactured from a single folded section. Front panel includes perforated frame around the whole perimeter of the enclosure opening. The rear is joined to the sides by means of a special section to form a protected watertight area. Painted internally and externally with textured light grey polyester epoxy resin to RAL 7032.

#### Ease of fitting:

- Front frame includes 11x13 mm drill holes spaced 25mm apart to allow fitting of accessories, modular distribution frames, 19" rack frames, etc.
- Guides with drill holes every 25mm. to enable depth adjustment of the mounting plate and other accessories.
- Front door opens 120° to left or right, includes a perforated reinforcing frame suitable for mounting accessories.

#### Rigidity and IP55:

- Reinforced fixing of enclosure base and double glued front panel.
- Self-centring door by means of correcting guides.
- Locking system outside the protect seal.
- 4 locking points in 1600 to 2000 mm high enclosures.
- 2 locking points in 1000 to 1400 mm high enclosures.
- IP55 achieve using a polyurethane foam seal.

#### Standard Delivery:

- Supplied with mounting plate.
- 4 plate support brackets.
- Unglazed front door with reinforcing frame.
- 2 point locking system.
- 2 cable entry covers supplied with IP55 seal.



CMO IP-55 Floor Standing Steel Enclosure				Reference	Price
Nominal Height (mm)	Nominal Dimensions (mm)		No. of Doors	Reference	Price
	Width	Depth			
1000	1000	300	2	CMO 1010/30 PM	£382.83
1200	800	300	1	CMO 128/30 PM	£321.38
1200	1000	300	2	CMO 1210/30 PM	£423.94
1200	1200	400	2	CMO 1212/40 PM	£442.50
1400	600	300	1	CMO 146/30 PM	£336.00
1400	600	400	1	CMO 146/40 PM	£357.44
1400	800	300	1	CMO 148/30 PM	£353.73
1400	800	400	1	CMO 148/40 PM	£376.32
1400	1000	400	2	CMO 1410/40 PM	£495.54
1400	1200	400	2	CMO 1412/40 PM	£566.56
1600	600	300	1	CMO 166/30 PM	£351.84
1600	600	400	1	CMO 166/40 PM	£374.30
1600	800	300	1	CMO 168/30 PM	£400.51
1600	800	400	1	CMO 168/40 PM	£393.53
1600	1000	300	2	CMO 1610/30 PM	£491.87
1600	1000	400	2	CMO 1610/40 PM	£553.14
1600	1200	300	2	CMO 1612/30 PM	£593.87
1600	1200	400	2	CMO 1612/40 PM	£585.05
1800	600	300	1	CMO 186/30 PM	£379.10
1800	600	400	1	CMO 186/40 PM	£390.45
1800	800	300	1	CMO 188/30 PM	£425.59
1800	800	400	1	CMO 188/40 PM	£404.49
1800	800	500	1	CMO 188/50 PM	£480.83
1800	800	600	1	CMO 188/60 PM	£504.86
1800	1000	400	2	CMO 1810/40 PM	£484.80
1800	1000	500	2	CMO 1810/50 PM	£543.04
1800	1200	400	2	CMO 1812/40 PM	£572.78
1800	1200	500	2	CMO 1812/50 PM	£696.97
1800	1600	400	2	CMO 1816/40 PM	£724.84

CMO IP-55 Floor Standing Steel Enclosure				Reference	Price
Nominal Height (mm)	Nominal Dimensions (mm)		No. of Doors	Reference	Price
	Width	Depth			
1800	1600	500	2	CMO 1816/50 PM	£824.19
2000	600	300	1	CMO 206/30 PM	£453.25
2000	600	400	1	CMO 206/40 PM	£463.26
2000	800	300	1	CMO 208/30 PM	£572.12
2000	800	400	1	CMO 208/40 PM	£499.64
2000	800	500	1	CMO 208/50 PM	£553.04
2000	800	600	1	CMO 208/60 PM	£580.70
2000	1000	400	2	CMO 2010/40 PM	£587.03
2000	1000	500	2	CMO 2010/50 PM	£628.13
2000	1200	400	2	CMO 2012/40 PM	£661.38
2000	1200	500	2	CMO 2012/50 PM	£723.93
2000	1200	600	2	CMO 2012/60 PM	£760.05
2000	1600	400	2	CMO 2016/40 PM	£747.64
2000	1600	500	2	CMO 2016/50 PM	£914.07
2000	1600	600	2	CMO 2016/60 PM	£959.80



### Single Plinths

To fit directly to the cubicles using the drillings for ground fixing.

- 100 and 200mm high
- Front and rear access
- Can be joined side to side in cubicle suites
- Dark grey to RAL 7022

Cubicle Dimensions		Plinth Height 100mm Reference	Plinth Height 200mm Reference	Price 100mm	Price 200mm
Width	Depth				
600	300	ZUN 63/100	ZUN 63/200	£44.03	£72.65
600	400	ZUN 64/100	ZUN 64/200	£44.36	£82.78
800	300	ZUN 83/100	ZUN 83/200	£48.96	£79.32
800	400	ZUN 84/100	ZUN 84/200	£47.23	£87.52
800	500	ZUN 85/100	ZUN 85/200	£45.95	£75.81
800	600	ZUN 86/100	ZUN 86/200	£48.81	£80.55
1000	300	ZUN 103/100	ZUN 103/200	£52.64	£97.39
1000	400	ZUN 104/100	ZUN 104/200	£51.75	£95.34
1000	500	ZUN 105/100	ZUN 105/200	£57.24	£82.13
1200	300	ZUN 123/100	ZUN 123/200	£67.77	£115.08
1200	400	ZUN 124/100	ZUN 124/200	£61.15	£84.49
1200	500	ZUN 125/100	ZUN 125/200	£57.80	£95.36
1200	600	ZUN 126/100	ZUN 126/200	£101.26	£91.80
1600	400	ZUN 164/100	ZUN 164/200	£68.39	£112.85
1600	500	ZUN 165/100	ZUN 165/200	£67.77	£111.83
1600	600	ZUN 166/100	ZUN 166/200	£69.35	£114.43

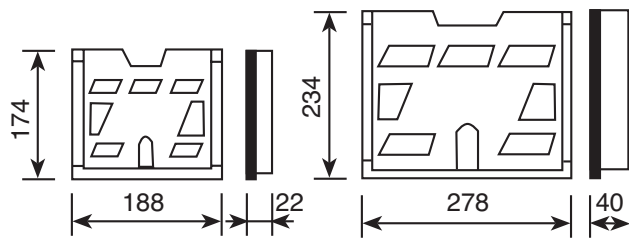


### Plan Pocket

PP-A models manufactured in PS (polystyrene). Painted grey to RAL-7035.

- Fastened using screws or adhesive tape. Designed to hold DIN A3-A4 or A5 plans.

Reference	Description	Price
PP-A4	A4	£5.13
PP-A5	A5	£3.52



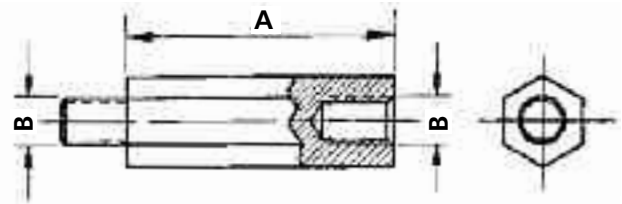
Reference	Description	Price
TMO12	Set of 2 M12 lifting eyebolts bolted directly to the cubicle structure.	£7.65



## Hexagonal Spacers

Hexagonal metal spacers to separate devices, mounting plates, etc... By combining them a variable height can be obtained with a progressive elevation of 2 by 2 mm in EX models.

Hexagonal Spacers				
Reference	Height A	Thread B	Pack Qty	Price
EX-10/6	10	M-6	50	£15.60
EX-12/6	12	M-6	50	£15.60
EX-14/6	14	M-6	50	£18.72
EX-16/6	16	M-6	50	£18.70
EX-18/6	18	M-6	50	£18.70
EX-20/6	20	M-6	50	£18.70
EX-30/6	30	M-6	20	£10.60
EX-40/6	40	M-6	20	£10.60
EX-50/6	50	M-6	20	£10.60
EX-100/6	100	M-6	20	£21.63
EX-15/8	15	M-8	50	£27.00
EX-20/8	20	M-8	50	£32.50
EX-30/8	30	M-8	20	£13.00
EX-40/8	40	M-8	20	£14.80
EX-50/8	50	M-8	20	£18.00
EX-100/8	100	M-8	20	£30.20



## Lock Options



### CMO Flat Lock options

Reference	Description	Price
TPC6/OLN	6mm Square Insert	£5.21
TPC7/OLN	6mm Square Insert	£5.21
TPC8/OLN	6mm Square Insert	£5.21
TPT7/OLN	7mm Triangular Insert	£4.31
TPT8/OLN	8mm Triangular Insert	£4.31
EMP/OLN	Flat cover plate	£7.10



### CMO Handle Lock options

Reference	Description	Price
TL/OLN	405 Key lock insert	£5.39
TLR/OLN	H/Duty Key lock insert	£33.38
TT7/OLN	7mm Triangular Insert	£5.04
TT8/OLN	8mm Triangular Insert	£5.04
TT9/OLN	9mm Triangular Insert	£5.04
TT10/OLN	10mm Triangular Insert	£5.04
TC6/OLN	6mm Square Insert	£5.39
TC7/OLN	7mm Square Insert	£5.39
TC8/OLN	8mm Square Insert	£5.39
BC/OLN	Pad lock	£37.25
MCS/OLN	Handle lock	£22.49

## Heaters

### General Characteristics

- Extruded aluminium body
- Surface temperature limited to 75°C at an ambient temperature of -5°C
- The units are supplied with a DIN rail for their attachment.
- 500mm long power supply cable with silicone insulation (except for 400 W model with fan which is features with a connection terminal block).

### Usage conditions

- Must be used with a hygrometer switch or a thermostat in order to control the temperature or humidity within the enclosure.
- The enclosure must be sealed so that outside air does not get into it.
- Install an electrical protection device on the supply side of the unit.



Reference	Dimensions mm	Voltage V	Power W	Price
RC-10	25 x 50 x 50	110-250	10	£29.30
RC-20	25 x 50 x 75	110-250	20	£34.84
RC-55	70 x 50 x 140	110-250	55	£44.90
RC-90	70 x 50 x 140	110-250	90	£69.53
RC-150	70 x 50 x 220	110-250	150	£86.12
RC-250	70 x 50 x 220	220-230	250	£107.33
RC-400	70 x 50 x 220	220-230	400	£111.25
RCV-400	80 x 80 x 248	220-230	400	£142.82
03000.0-00 (RC-60V200)	120 x 120 x 25	140-250	60/200	£119.68

## Thermostat TS 140

NC opening thermostat used to stop the resistance heater when the temperature rises above the set value. We recommend specially this device to prevent the temperature inside the enclosure from rising during the hot season. The life of the resistance heaters is also increased, as they are required less often.

- DIN rail fixing
- IP 30
- VO self-extinguishing thermoplastic as per UL-94
- Adjustable temperature from 0 to 60°C



## Thermostat TS 141

NO closing thermostat, used to start the fan when the temperature rises above the set maximum value. This device regulates the temperature inside the enclosure by starting the fan only when an intake of fresh air is required. As a result, the life of the fan is increased, and its filter stays cleaner.

- DIN rail fixing
- IP-30
- VO self-extinguishing thermoplastic as per UL-94
- Adjustable temperature from 0 to 60°C

Reference	Dial Colour	Contacts	Price
TS 140	Red	Normally Closed	£14.63
TS 141	Blue	Normally Open	£14.63

## Vapour Capsules

Vapour Capsules protect areas, which are sensitive to corrosion such as electrical control bays, boxes and panels, storage cabinets and tool boxes.

The capsules contain proprietary chemical systems, which emit an invisible, odorless, non-toxic vapor, which is diffused throughout the enclosure. The resulting VCI-rich atmosphere causes VCI (Volatile Corrosion Inhibitor) molecules to condense on all interior surfaces they can reach.

The condensed molecules passivate iron, steel, copper, brass and aluminium. The proprietary VCI formulation in combination with ruggedly designed packaging makes these vapor capsules a remarkably practical solution to many corrosion problems.

### Features

- High performance corrosion protection
- Dry in use – no oils or greases
- Easy application
- Cost effective

### Suitable for use with

- Iron
- Steel
- Copper
- Brass
- Aluminium



Reference	Protective Radius	Volume Protected	Useful Life	Price
VC1-1	0.3m	0.12m <sup>3</sup>	1	£3.95
VC2-1	0.6m	0.95m <sup>3</sup>	1	£7.84
VC2-2	0.6m	0.95m <sup>3</sup>	2	£12.58
VC6-2	1.8m	25.6m <sup>3</sup>	2	£89.47

**The advantages of this range are clear to see:****Halogen free:**

The SMC composition is chlorine and halogen free, therefore the combustion does not give off toxic fumes.

**Waterproofness:**

The Polyester enclosure fits a polyurethane gasket and other systems avoiding ingress of water and dust thus protecting the internal installation. The protection degree of all enclosures is IP-66.

**Easy machining:**

The easy machining of polyester enclosures based both on its mechanical rigidity and the features of the polymers facilitates basic operations such as cut-outs, drillings, etc. required for the installation of components (push buttons, switches, fans, etc.).

**Self-extinguishing:**

Even though polymers generally do not perform well under fire conditions because of their organic origin the addition of fireproof additives to the SMC composition makes the enclosure self-extinguishing, which is an essential feature of every electrical installation.

**Tamper proof:**

The design of the polyester enclosure helps to avoid aggressions and/or manipulations by unauthorised personnel.

**Weatherproof:**

The properties of the SMC itself and the additives which strengthen its resistance to sun radiation make polyester enclosures particularly suitable for an outdoor applications or highly corrosive environments.

**Double insulation:**

The SMC non-electrical conductivity as a feature of the base raw material along with the design of the components of the enclosure ensures a full protection to the end users in case of accident. Double insulation is guaranteed.

**Lightness:**

Polyester enclosures are between 25 and 45% lighter than their metal equivalents in size but provide the same mechanical resistance.



**Glass-Reinforced  
Polyester Enclosures**



Built-in canopy which protects the door and its gasket.



The 25 mm pitched moulded locations in the back of the enclosure, allow the direct attachment of mounting rails or other devices, reducing the assembly time.



Cabinet with transparent templated glass door **ref:PLM/KT**, maintaining the IP-65 and IK-8 (5J) degrees of protection.



Self-ventilation windows at the rear of the cabinet.



Built in standard double bar locking system and three points locking for PLM 108.



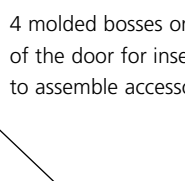
A complete range of mounting plates suitable for most types of installations.



Maximum usable space, door provided with a grid pattern for centering of equipment.



Depth adjustable support with positions every 12.5 mm.



4 molded bosses on inside of the door for inserts help to assemble accessories.



Lock are located outside the gasketed area to maintain the IP-66 degree.



Four inserts at the back for fixing of mounting plate.



Reversible internal door grid patterned, on the inside for quicker positioning of equipment.



The molded in polyurethane sealing gasket ensures the IP-66.

Ventilation air vents provide natural ventilation to interior of enclosure, thus avoiding condensation.

Direct attachment to wall through rear of enclosure, with cap to maintain double insulation and sealing.

Internal stainless steel hinges, built in the door with safety pins, easily removable. Door opening over 180°.

### GRP PLM IP-66

Glass-fibre reinforced polyester cabinets.

- One-piece monoblock body
- Colour grey, RAL 7032
- Completely reversible
- Designed for use both indoors and outdoors.
- Wide range of accessories allowing for their use in distribution, control and measurement panels for industrial and recreational installations
- Inserts located at the front of the cabinet for fixing of distribution chassis and internal door
- Self-extinguishing
- Maximum working temperature ranges from -50 to 150°C
- Resistant to principal chemical and atmospheric agents
- Corrosion resistant
- Stable to ultra-violet rays
- Prepared for double insulated boards in accordance with ICE 439-1 (EN 60.439.1) standard
- High resistance to mechanical impacts IK-10 (20 J) in accordance with EN 50.102
- UL approval in accordance with UL 50, grades Nema 4X and 12
- For mounting plates see page 95



External Dimensions			Plain Door	Transparent Door	Price PLM	Price PLM KT
Height	Width	Depth				
310	215	160	PLM-32*	PLM-32/KT*	£40.38	£49.30
308	255	160	PLM-3025	PLM-3025/KT	£54.59	£76.34
430	330	200	PLM-43	PLM-43/KT	£71.41	£81.91
530	430	200	PLM-54	PLM-54/KT	£93.57	£111.75
647	436	250	PLM-64	PLM-64/KT	£105.28	£129.78
747	536	300	PLM-75	PLM-75/KT	£151.99	£155.41
847	636	300	PLM-86	PLM-86/KT	£184.38	£192.26
1056	852	350	PLM-108**	PLM-108KT**	£342.57	£387.63

\*Model PLM-32 in polycarbonate.  
\*\*4-point locking system enclosure.

### Air Vents

To equalise external and internal temperatures and thus prevent condensation within the enclosure. Air vents can be fixed on the internal sides connected with the rear self-ventilating window, ref: VM-35. Protection degree IP 44 when installed.

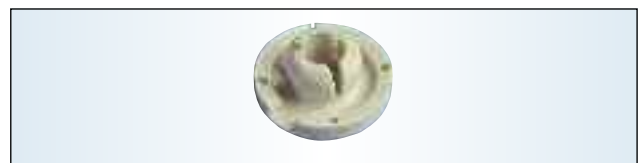
Reference	Description	Price
VM-35	For Connecting to the Inside of POLYMEL Enclosures	£3.56



### Draining Device

To remove water from condensation. Fixed to the ø 9 mm housing on the bottom of the enclosure. Protection degree IP-55.


Reference	Description	Price
VEA-9	For Fitting to All Cabinets	£2.03



## Locks for PLM

Double bar standard lock, with stainless zinc alloy inserts

Operated by:

- **LDB 5 key**  (according to DIN 43668)

Optional Lock Inserts To Transform The Standard Lock

Characteristics	Key Operated Product Ref	Reference	Price
6 mm square lock	LC-7	TC6/CRN	£5.39
7 mm square lock	LC-7	TC7/CRN	£5.39
8 mm square lock	LC-8	TC8/CRN	£5.39
6,5 mm triangular lock	LT-6,5	TT7/CRN	£5.60
8 mm triangular lock	LT-8	TT8/CRN	£5.60
wing key lock		TL/PLM	£11.11
stainless steel padlock		KPLM	£10.92
double back wing key		CDB/PLM	£4.43



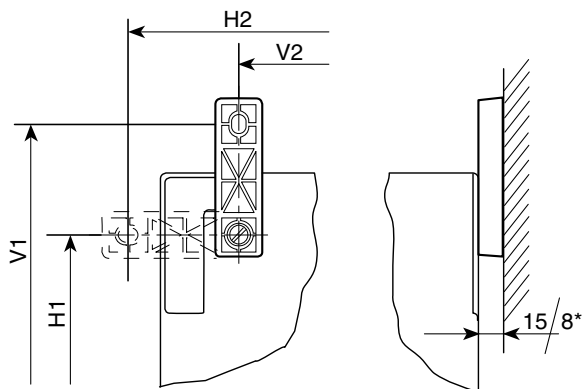
## Wall mounting set

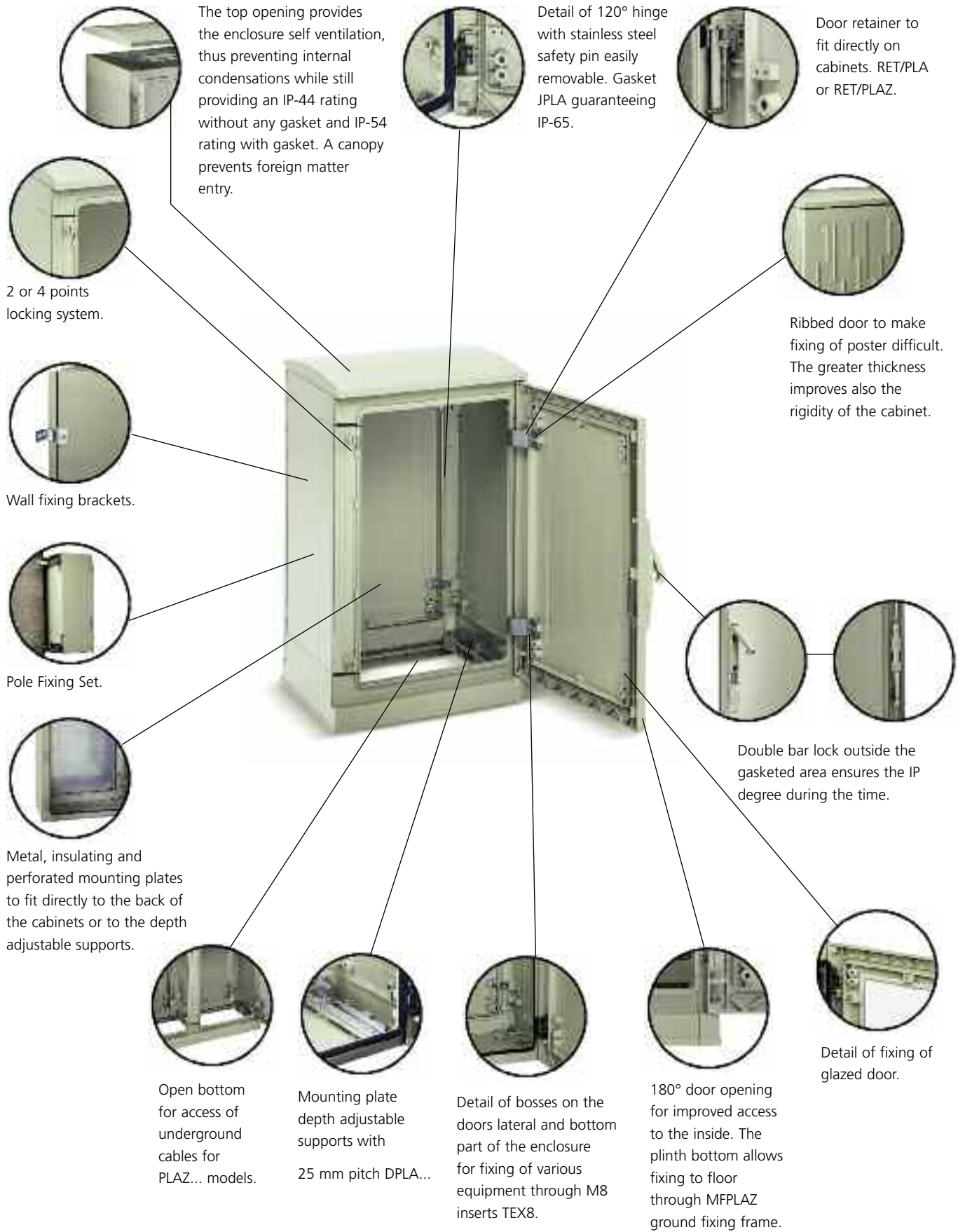
Assembly for fixing the cabinet to the wall. It is attached from the outside to the rear of the cabinet using inserts and M8 screws (included in the standard supply). The PLM-32 model is fixed by self-tapping screws. The fixing pieces can be located either vertically or horizontally. The assembly is not included in the standard supply.



PLM IP-66 Wall Mounting Set

To Fit Enclosures	Reference Insulation	Dimensions PF/PLM				Price
		Horizontal Position		Vertical Position		
		Height (H1)	Width (H2)	Height (V1)	Width (V2)	
PLM-32	PF/PLM-32	247	239	334	152	£5.78
PLM-3025	PF/PLM	250	332	385	197	£4.27
PLM-43	PF/PLM	355	360	490	225	£4.27
PLM-54	PF/PLM	455	460	590	325	£4.27
PLM-64	PF/PLM	555	465	690	330	£4.27
PLM-75	PF/PLM	655	565	790	430	£4.27
PLM-86	PF/PLM	755	665	890	530	£4.27
PLM-108	PF/PLM	995	885	1090	750	£4.27





The top opening provides the enclosure self ventilation, thus preventing internal condensations while still providing an IP-44 rating without any gasket and IP-54 rating with gasket. A canopy prevents foreign matter entry.

Detail of 120° hinge with stainless steel safety pin easily removable. Gasket JPLA guaranteeing IP-65.

Door retainer to fit directly on cabinets. RET/PLA or RET/PLAZ.

2 or 4 points locking system.

Ribbed door to make fixing of poster difficult. The greater thickness improves also the rigidity of the cabinet.

Wall fixing brackets.

Double bar lock outside the gasketed area ensures the IP degree during the time.

Pole Fixing Set.

Metal, insulating and perforated mounting plates to fit directly to the back of the cabinets or to the depth adjustable supports.

Open bottom for access of underground cables for PLAZ... models.

Mounting plate depth adjustable supports with 25 mm pitch DPLA...

Detail of bosses on the doors lateral and bottom part of the enclosure for fixing of various equipment through M8 inserts TEX8.

180° door opening for improved access to the inside. The plinth bottom allows fixing to floor through MFPLAZ ground fixing frame.

Detail of fixing of glazed door.

**PLA IP-65**

Hot-moulded reinforced polyester cabinets

- Grey to RAL 7032.
- Conforms to general rules for empty enclosures established by standard EN 50.298
- IP-65 according to IEC (EN 60.529)
- High degree of resistance to mechanical impacts IK10(20J) according to EN 50.102
- Self-extinguishing according to IEC 695-2-1(960°)
- Wide range of operating temperatures -50 to 150°C
- Resistance to main chemical agents and corrosive environments
- Resistant to UV rays
- Suitable for double insulation assemblies according to standard IEC 439-1(EN 60.439.1)
- Reversible door with 120° opening. Max. load 30 Kg/m<sup>2</sup>
- Lock outside the gasketed area with 2-point locking system on cabinets up to 750 mm high and 4-point as from 1000 mm
- Bosses for M8 inserts inside of the cabinet for direct fixing of mounting plates, accessories, etc.

**Configuration**

- Cabinet with closed top and bottom, fitted with watertight gasket
- Reversible plain door with two hinges in cabinets up to 750 high and 4 in cabinets as from 1000 mm
- Double bar lock operated by means of LDB5, other transformations and handle locks available
- Two-door cabinets include upright for support

Reference	Nominal Dimensions (mm)			No of Doors	Price
	Height	Width	Depth		
PLA 553	500	500	320	1	£192.42
PLA 554	500	500	420	1	£222.05
PLA 573	500	750	320	1	£217.33
PLA 574	500	750	420	1	£237.68
PLA 5103	500	1000	320	2	£319.16
PLA 5104	500	1000	420	2	£358.22
PLA 5123	500	1250	320	2	£349.13
PLA 5124	500	1250	420	2	£401.10
PLA 753	750	500	320	1	£217.33
PLA 754	750	500	420	1	£237.68
PLA 773	750	750	320	1	£276.86
PLA 774	750	750	420	1	£286.47
PLA 7103	750	1000	320	2	£362.27
PLA 7104	750	1000	420	2	£395.46
PLA 7123	750	1250	320	2	£407.48
PLA 7124	750	1250	420	2	£457.89
PLA 1053	1000	500	320	1	£286.23
PLA 1054	1000	500	420	1	£296.29
PLA 1073	1000	750	320	1	£339.56
PLA 1074	1000	750	420	1	£353.60

**Other Options**

Glazed Door



Ribbed Door



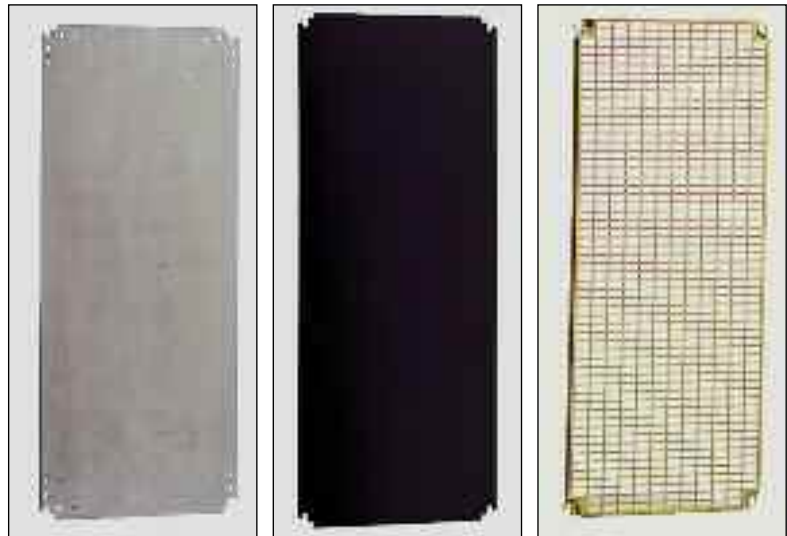
Reference	Nominal Dimensions (mm)			No of Doors	Price
	Height	Width	Depth		
PLA 10103	1000	1000	320	2	£446.24
PLA 10104	1000	1000	420	2	£482.21
PLA 10123	1000	1250	320	2	£488.29
PLA 10124	1000	1250	420	2	£544.96
PLA 1253	1250	500	320	1	£323.61
PLA 1254	1250	500	420	1	£334.84
PLA 1273	1250	750	320	1	£380.36
PLA 1274	1250	750	420	1	£387.59
PLA 12103	1250	1000	320	2	£499.25
PLA 12104	1250	1000	420	2	£540.89
PLA 12123	1250	1250	320	2	£601.86
PLA 12124	1250	1250	420	2	£631.31
PLA 1553	1500	500	320	1	£344.55
PLA 1554	1500	500	420	1	£367.48
PLA 1573	1500	750	320	1	£390.35
PLA 1574	1500	750	420	1	£407.93
PLA 15103	1500	1000	320	2	£572.60
PLA 15104	1500	1000	420	2	£604.80
PLA 15123	1500	1250	320	2	£666.15
PLA 15124	1500	1250	420	2	£689.98



### Mounting Plates for PLA

A complete range of mounting plates comprising 3 versions able to provide all the mountings needed for this installation system.

- Standard zinc coated steel plates
- Insulating plates in bakelite
- Universal plates for rapid fitting of switch gear, manufactured in dichromated zinc coated steel
- PMM stocked



External Dimensions (mm)		Metal Mounting Plate	Price	Insulating Mounting Plate	Price	Perforated Mounting Plate	Price
Height	Width						
500	500	PMM 55	£13.70	PMB 55	£13.89	PMR 55	£34.74
	750	-	-	-	-	PMR 57	£42.26
	1000	PMM 510	£33.24	PMB 510	£40.18	PMR 55 + PMR 55	£69.48
750	1250	PMM 55 + PMM 75	£33.54	PMB 55 + PMB 75	£36.81	PMR 55 + PMR 57	£77.00
	500	PMM 75	£19.84	PMB 75	£22.92	PMR 75	£44.93
	750	PMM 77	£32.57	PMB 77	£63.85	PMR 77	£53.99
1000	1000	PMM 710	£41.66	PMB 710	£67.18	PMR 75 + PMR 75	£89.86
	1250	PMM 712	£64.33	PMB 712	£67.92	PMR 75 + PMR 77	£98.92
	500	PMM 105	£28.68	PMB 105	£36.89	PMR 105	£46.08
1250	750	PMM 107	£42.51	PMB 107	£64.06	PMR 107	£65.11
	1000	PMM 1010	£67.77	PMB 1010	£92.43	PMR 105 + PMR 105	£92.16
	1250	PMM 1012	£108.67	PMB 1012	£95.54	PMR 105 + PMR 107	£111.19
1500	500	PMM 125	£48.92	PMB 125	£37.67	PMR 125	£56.69
	750	PMM 127	£66.70	PMB 127	£64.69	PMR 127	£77.77
	1000	PMM 1210	£97.84	PMB 1210	£96.68	PMR 125 + PMR 125	£113.38
1500	1250	PMM 1212	£132.35	PMB 1212	£97.13	PMR 125 + PMR 127	£134.46
	500	PMM 155	£54.53	PMB 155	£64.66	PMR 155	£63.30
	750	PMM 157	£75.36	PMB 157	£171.42	PMR 157	£89.56
1500	1000	PMM 1510	£109.70	PMB 1510	£175.52	PMR 155 + PMR 155	£126.60
	1250	PMM 1512	£147.83	PMB 1512	£175.58	PMR 155 + PMR 157	£152.86

### Standard Lock options for Closed Top PLA Enclosures

Converting The Standard To A Standardised Variant			
Characteristics	Key Operated Product Ref	Reference	Price
6 mm Square Key Lock	- · LC-7	TC 6/CRN	£5.75
7 mm Square Key Lock	- · LC-7	TC 7/CRN	£5.75
8 mm Square Key Lock	- · LC-8	TC 8/CRN	£5.75
6 mm Triangular Key Lock	↳ · LT-6,5	TT 6/CRN	£5.75
7 mm Triangular Key Lock	↳ · LT-8	TT 7/CRN	£5.75
8 mm Triangular Key Lock	↳ · LT-8	TT 8/CRN	£5.60
Stainless Steel Padlock		BC/PLA	£28.08
Double Bar Lock	↳ ·	TDB/PLA	£2.91

## Polyester/Polycarbonate Modular Boxes System 27 IP65

Range of insulated modular boxes with bases made of hot moulded fibreglass reinforced polyester and lids made of polycarbonate or polyester depending on models. Boxes PLS are with transparent polycarbonate lid, boxes PLSO with opaque polycarbonate lid. Boxes PLSP are with both lid and base made of fibreglass reinforced polyester.

- Light grey colour similar to RAL 7032
- Modular design that allows the joining of boxes to form assemblies in addition to the use as a single box
- Self-extinguishing, double insulation
- Dielectric rigidity > 5 kV, insulating resistance > 5 MW
- Fully gasketed lids
- Operating temperature between -30°C and 120 °C for types PLS and up to 150°C for types PLSP
- Good resistance to UV and chemicals, corrosion free, very easy machining
- Standard locking through insulated slotted screws.

Polycarbonate Transparent Low Lid

Reference	Height	Width	Depth	Price
PLS 1827	180	270	180	<b>£28.75</b>
PLS 2727	270	270	180	<b>£34.74</b>
PLS 2736	270	360	180	<b>£41.25</b>
PLS 2754	270	540	180	<b>£61.41</b>
PLS 3636	360	360	180	<b>£53.41</b>
PLS 3654	360	540	180	<b>£71.83</b>
PLS 5454	540	540	180	<b>£107.51</b>

Polycarbonate Transparent High Lid

Reference	Height	Width	Depth	Price
PLS 2727 A	270	270	230	<b>£42.46</b>
PLS 2736 A	370	360	230	<b>£46.65</b>
PLS 2754 A	270	540	230	<b>£22.28</b>
PLS 3654 A	360	540	230	<b>£84.54</b>
PLS 5454 A	540	540	230	<b>£125.39</b>
PLS 3672 A	360	720	230	<b>£115.37</b>
PLS 5472 A	540	720	230	<b>£171.61</b>

Polyester Lid Boxes

Reference	Height	Width	Depth	Price
PLSP 1827	180	270	180	<b>£29.83</b>
PLSP 2727	270	270	180	<b>£37.09</b>
PLSP 2736	270	360	180	<b>£45.83</b>
PLSP 2754	270	540	180	<b>£57.65</b>
PLSP 3636	360	360	180	<b>£65.58</b>
PLSP 3654	360	540	180	<b>£77.01</b>
PLSP 5454	540	540	180	<b>£113.62</b>

## Mounting Plate

Steel Mounting Plates

Reference	Height	Width	Thickness	Price
PMM 1827	140	230	2	<b>£4.09</b>
PMM 2727	230	230	2	<b>£5.27</b>
PMM 2736	230	320	2	<b>£6.63</b>
PMM 2754	230	500	2	<b>£11.71</b>
PMM 3636	320	320	2	<b>£12.28</b>
PMM 3654	320	500	2	<b>£14.75</b>
PMM 5454	500	500	2	<b>£21.39</b>
PMM 3672	320	680	2.5	<b>£24.68</b>
PMM 5472	500	680	2.5	<b>£26.16</b>



Polycarbonate Opaque Low Lid

Reference	Height	Width	Depth	Price
PLSO 1827	180	270	180	<b>£29.57</b>
PLSO 2727	270	270	180	<b>£36.48</b>
PLSO 2736	270	360	180	<b>£40.92</b>
PLSO 2754	270	540	180	<b>£64.10</b>
PLSO 3636	360	360	180	<b>£56.04</b>
PLSO 3654	360	540	180	<b>£77.48</b>
PLSO 5454	540	540	180	<b>£43.26</b>

Polycarbonate Opaque High Lid

Reference	Height	Width	Depth	Price
PLSO 2727 A	270	270	230	<b>£43.34</b>
PLSO 2736 A	270	360	230	<b>£52.89</b>
PLSO 2754 A	270	540	230	<b>£74.19</b>
PLSO 3654 A	360	540	230	<b>£91.38</b>
PLSO 5454 A	540	540	230	<b>£115.30</b>
PLSO 3672 A	360	720	230	<b>£124.83</b>
PLSO 5472 A	540	720	230	<b>£183.71</b>

Polyester Mounting Plates

Reference	Height	Width	Thickness	Price
PMA 1827	140	230	3	<b>£2.65</b>
PMA 2727	230	230	3	<b>£3.84</b>
PMA 2736	230	320	3	<b>£4.98</b>
PMA 2754	230	500	3	<b>£7.43</b>
PMA 3636	320	320	3	<b>£6.44</b>
PMA 3654	320	500	4	<b>£12.21</b>
PMA 5454	500	500	4	<b>£19.84</b>
PMA 3672	320	680	4	<b>£18.12</b>
PMA 5472	500	680	4	<b>£27.59</b>



**Hinged windows**

Designed for viewing of internal equipment and easy access to it. Maintain IP-65 protection. Made of transparent polycarbonate.

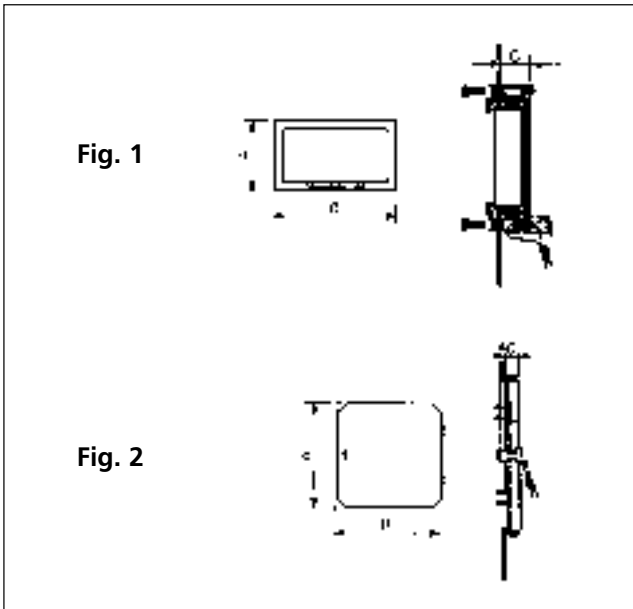


Fig. 1



Fig. 2

Hinged Windows										
Reference Standard Lid	Price	Reference High Lid	Price	No of Poles (18mm)	fig.	A	B	C Standard Lid	C High Lid	
VA 27/2M	£7.40	VA 27/2MA	£6.20	2	1	78	60	15	25	
VA 27/4M	£7.40	VA 27/4MA	£8.49	4	1	78	95	15	25	
VA 27/6M	£10.59	VA 27/6MA	£11.00	6	1	78	130	15	25	
VA 27/8M	£9.93	VA 27/8MA	£10.73	8	1	78	165	15	25	
VA 27/10M	£14.00	VA 27/10MA	£14.47	10	1	78	200	15	25	
VA 27/12M	£14.66	VA 27/12MA	£14.66	12	1	78	235	15	25	
VA 27/16M	£14.95	-	-	16	2	195	165	13	-	
VA 27/24M	£22.49	-	-	24*	2	196	235	13	-	

\* Rows of 12 modules each.

**Hinges**

For fixing directly on to any type of box.

- External hinges, opening approximately to 180°

Hinges			
Reference	Description	Pack Qty	Price
BE 27	External Hinge	2	£8.84



**Wall Fixing Kit**

Wall Fixing Kit			
Reference	Description	Pack Qty	Price
PF-27	Fixing Kit	4	£2.69



## Industrial Boxes

<b>Innovation:</b>	to respond to the ongoing evolutions of manufacturers.
<b>Performance:</b>	of design and materials to resist the most severe environments.
<b>Complete:</b>	to offer a wide choice with logical progression of dimensions.
<b>Customisation:</b>	to satisfy specific demands of integrators.

### Security:

- Certified boxes
- TUV to standard EN 62208
- Class II (double installation for all boxes)
- "Halogen-free" material

### Time Saving:

- Easy equipment:
  - Specialised accessories, saving time
  - Differentiated fixing studs for body and cover
- Easy installation:
- 3 available cable entry types,
  - 3 fixing methods
  - Security closing with covers lead-sealing possible



### Strength:

- High mechanical resistance
  - IK07 for ABS
  - IK08 for PC
- Incandescent wire resistance
  - 650° for ABS
  - 750° for PC
- Box and cover rigidity maintained even after extensive machining

### Aesthetics:

- Functional design
- Rounded shapes avoid dirt accumulation and water stagnation

### Sealing:

- IP 66 minimum for all boxes even with accessories
- Box closing and fixing outside usable volume

## Industrial Boxes

### UNIVERSAL OFFER

#### Material:

- Polycarbonate for high performance requirements: Impact, temperature and UV resistance.

#### 19 Sizes:

- From 74 x 74mm to 341 x 291mm

#### 2 Cover Choices:

- Opaque: all dimensions
- Transparent: height >20mm

UL certified special range

### FUNCTIONAL OFFER

#### Pushbutton boxes with buttons:

- Emergency Stop
- Raise / Lower / Stop
- Start / Stop

#### Boxes for entry plates:

- 3 boxes with knock-outs accepting commercially available entry plates



## Industrial Boxes

### Features:

- Cover closing by 4 fast coarse pitch screws (flat head screwdriver) assuring IP66 protection.
- From dimensions 138mm x 93 mm, standard screws (flat head screwdriver) can be replaced by other standardised screw head shapes.
- 3 ways of wall fixing: outside usable area, sealed, via 4 corners at box corners, through box via 2 or 4 knock-out oblong holes, with fixing lugs.
- Equipment fixing studs in box cover and body for self-tapping screws Ø 4 mm ref.: TOR/IB (not provided).
- Stand-offs, mounted on studs and spacers EX and EXA enable equipment height adjustment.
- Adaptable hinges on all 20 and 40 mm depth covers.



### Technical Characteristics:

- IP66 to standard IEC 60529.
- NEMA 4 & 4X to NEMA 250.
- Class II to IEC 536.
- Colour: box grey RAL7035, covers moked transparent.
- Halogen-free insulating plastic materials.
- Resistance to chemical and atmospheric agents.
- According to standard EN 62208.
- PC Boxes.
- IK08 (5J) to EN 50102.
- Incandescent wire: 750°C.
- Operating temperature: -25°C to +80°C
- Installation temperature: -15°C to +60°C

External Dimensions (mm)				Reference - IBS				Reference - IBP				Reference - IBPUL (UL Approved)			
Height	Width	Depth	Cover Height	Opaque Cover	Price	Transparent Cover	Price	Opaque Cover	Price	Transparent Cover	Price	Opaque Cover	Price	Transparent Cover	Price
74	74	54	10	IBS77/5	£2.20	-	-	IBP77/5	£3.89	-	-	IBP775UL	£4.09	-	-
89	89	54	10	IBS88/5	£2.14	-	-	IBP88/5	£4.28	-	-	IBP88/5UL	£4.50	-	-
116	74	62	10	IBS117/6	£2.55	-	-	IBP117/6	£4.39	-	-	IBP117/6UL	£4.62	-	-
116	116	62	10	IBS1111/6	£3.87	-	-	IBP1111/6	£4.69	-	-	IBP11116/UL	£4.93	-	-
138	93	72	20	IBS139/7	£3.73	IBS139/7T	£4.98	IBP139/7	£4.50	IBP139/7T	£5.12	IBP139/7UL	£5.81	IBP139/7TUL	£5.93
164	121	87	20	IBS1612/8	£5.98	IBS1612/8T	£6.92	IBP1612/8	£7.21	IBP1612/8T	£7.94	-	-	IBP1612/8TUL	£8.34
192	121	87	20	IBS1912/8	£6.51	IBS1912/8T	£7.48	IBP1912/8	£11.02	IBP1912/8T	£11.53	IBP1912/8UL	£11.57	IBP1912/8TUL	£12.11
192	121	105	40	IBS1912/10	£7.73	IBS1912/10T	£9.25	IBP1912/10	£11.92	IBP1912/10T	£13.03	IBP1912/10UL	£12.52	IBP1912/10TUL	£13.69
193	164	87	20	IBS1916/8	£9.26	IBS1916/8T	£10.17	IBP1916/8	£13.35	IBP1916/8T	£14.68	IBP1916/8UL	£14.02	IBP1916/8TUL	£15.41
193	164	105	40	IBS1916/10	£9.51	IBS1916/10T	£10.87	IBP1916/10	£14.00	IBP1916/10T	£15.40	IBP1916/10UL	£14.70	IBP1916/10TUL	£16.18
241	194	87	20	IBS2419/8	£10.65	IBS2419/8T	£12.76	IBP2419/8	£14.85	IBP2419/8T	£16.33	IBP2419/8UL	£15.60	IBP2419/8TUL	£17.15
241	194	105	40	IBS2419/10	£10.98	IBS2419/10T	£14.71	IBP2419/10	£17.85	IBP2419/10T	£18.55	IBP2419/10UL	£18.74	IBP2419/10TUL	£19.48
241	194	127	60	IBS2419/12	£13.09	IBS2419/12T	£15.63	IBP2419/12	£20.53	IBP2419/12T	£20.06	IBP2419/12UL	£21.56	IBP2419/12TUL	£21.07
291	241	88	20	IBS2924/8	£17.60	IBS2924/8T	£19.36	IBP2924/8	£30.58	IBP2924/8T	£30.20	IBP2924/8UL	£30.58	IBP2924/8TUL	£31.71
291	241	128	20	IBS2924/12	£19.32	IBS2924/12T	£22.66	IBP2924/12	£29.38	IBP2924/12T	£31.54	IBP2924/12UL	£30.85	IBP2924/12TUL	£33.12
291	241	128	60	IBS2924/12A	£18.78	IBS2924/12AT	£23.15	IBP2924/12A	£31.36	IBP2924/12AT	£31.81	IBP2924/12AUL	£32.92	IBP2924/12ATUL	£33.41
291	241	168	60	IBS2924/16	£25.81	IBS2924/16T	£27.31	IBP2924/16	£31.04	IBP2924/16T	£33.10	IBP2924/16UL	£32.60	IBP2924/16TUL	£34.75
341	291	128	20	IBS3429/12	£27.34	IBS3429/12T	£30.07	IBP3429/12	£35.87	IBP3429/12T	£36.55	IBP3429/12UL	£37.66	IBP3429/12TUL	£38.38
341	291	168	60	IBS3429/16	£34.05	IBS3429/16T	£37.46	IBP3429/16	£56.17	IBP3429/16T	£54.78	IBP3429/16UL	£58.98	IBP3429/16TUL	£57.53

### IBS Boxes

- ABS
- IK07 (2J) to EN 50102
- Incandescent wire: 650° C to IEC 60695-2-11
- Operating Temp: -25...+60°C
- Installation Temp: -15...+40°C

### IBP Boxes

- PC
- IK08 (5J) to EN 50102
- Incandescent wire: 750° C
- Operating Temp: -25...+80°C
- Installation Temp: -15...+60°C



## Boxes for mounting plates

### Features:

- Plastic boxes in polycarbonate with knock-outs for cable entries.
- IP66, NEMA 4 & 4X.
- IK08.
- Grey RAL7035.



External Dimensions (mm)			Boxes for mounting plates			
Height	Width	Depth	Opaque Cover	Price	Trans. Cover	Price
241	194	87	IBP2419/8ST	<b>£23.97</b>	IBP2419/8TST	<b>£26.89</b>
291	241	88	IBP2924/12ST	<b>£40.99</b>	IBP2924/12TST	<b>£45.10</b>
341	291	128	IBP3429/12ST	<b>£47.00</b>	IBP3429/12TST	<b>£51.70</b>

### Push button boxes:

- IP54 - NEMA 13 (for equipped boxes).
- IK07.
- Grey RAL7035 and yellow RAL1021 "emergency stop".
- Pushbutton hole diameter: 22.5 mm.
- Knock-out cable entries for ISO cable gland.
- 4 entries diameter 20 mm on 1-button box.
- 6 entries diameter 20 mm on 2 and 3-button boxes.



External Dimensions (mm)			Push button boxes			
Height	Width	Depth	Reference	Holes	Entries 16/20 mm	Price
74	74	54	IBS77/5H1	1	4	<b>£2.11</b>
			IBS77/5H1PE*	1	4	<b>£2.11</b>
116	74	62	IBS117/6H2	2	6	<b>£2.45</b>
			IBS117/6H3	3	6	<b>£2.45</b>

\*Yellow "emergency stop" box.

### Push button boxes, with buttons

- Emergency stop function with red  $\varnothing$  40mm "mushroom head" push button, "turn to release"
- Start/Stop function with 2 push buttons
- Raise/Lower/Stop function with 3 push buttons



External Dimensions (mm)			Push button boxes			
Height	Width	Depth	Reference	Holes	Entries 16/20 mm	Price
74	74	54	IBS77/5P1PE*	1 (emergency stop)	4	<b>£10.65</b>
116	74	62	IBS117/6P2	2 (start/stop)	6	<b>£8.29</b>
116	74	62	IBS117/6P3	3 (raise/lower/stop)	6	<b>£10.15</b>

Function	Contact Type		Function	Contact Type	
	N/O	N/C		N/O	N/C
Emergency stop	1	1	Raise/lower/stop		
Start/stop	1	1	Raise	1	-
Start	1	-	Lower	1	-
Stop	-	1	Stop	-	1

## Mounting plates

- Mounting plates in galvanised steel (thickness 15/10) and insulating material (thickness 25/10) to suit any application. Screws not supplied.
- Plate fixing with  $\varnothing$  4 mm self-tapping cross slot head screw, ref. **TOR/IB**.



Insulating material plate

Steel plate

External Dimensions (mm)			Reference			
Height	Width	Depth	Steel	Price	Insulating	Price
193	164	87	PMIB1916	<b>£4.63</b>	PMAIB1916	<b>£8.65</b>
241	194	87	PMIB2419	<b>£5.19</b>	PMAIB2419	<b>£10.03</b>
241	194	127	PMIB2419	<b>£5.19</b>	PMAIB2419	<b>£9.64</b>
291	241	88	PMIB2924	<b>£6.35</b>	PMAIB2924	<b>£12.86</b>
341	291	128	PMIB3429	<b>£7.18</b>	PMAIB3429	<b>£16.15</b>

## Fixing Lugs

- Plastic fixing lugs for mounting on boxes from size > 116mm x 116mm.
- Vertical or horizontal mounting.
- Kit comprising 4 lugs +screws



Description	Reference	Price
Fixing Lugs	PFIB	<b>£3.09</b>

## Hinges

- Hinges are adaptable on all cover depths 20 and 40 mm from box size 138 x 93 mm.
- Hinges allow complete opening of the cover.
- Permissible load of cover with hinges: 10 kg/m<sup>2</sup>.
- Hinges (sets of 2) are supplied with screws and installation instructions.



Hinges	20mm	Price	40mm	Price
Reference	BIB 20	<b>£2.46</b>	BIB 40	<b>£2.67</b>

## Association Kit

- The association kit enables side-by-side mounting of boxes from size 138 x 93mm, without reducing IP.
- Kit installation is by drilling an M32 hole in boxes to be associated. To increase wire passage capacity, a second kit can added after drilling an additional M32 hole.
- Kit comprises 2 connection parts, nuts and seals.



Description	Reference	Price
Association Kit	UMDHS	<b>£7.68</b>

### Terminal Blocks

- Boxes from size 192mm x 121mm accept terminal block support bar 12 x 2mm.
- Screw terminal blocks clip easily on this bar.
- Terminal block connection capacity: see selection guide.
- Separate earth terminal clips in boxes size 116mm x 116mm.
- Max. connection capacity: 2 x 2.5mm<sup>2</sup>.



Terminal Blocks

Internal Dimensions width x depth	Reference	Price
175mm x 60mm	SBIB4	£3.68
225mm x 80mm	SBIB6	£3.85
275mm x 100mm	SBIB8	£6.62



Terminal Blocks

Description	Holes	Black	Price	Blue	Price	Green	Price
2 x 10 <sup>2</sup> + 2 x 16 <sup>2</sup>	4	RBIB22TN	£1.67	RBIB22TA	£1.82	RBIB22TV	£1.82
3 X 16 <sup>2</sup> + 1 x 25 <sup>2</sup>	4	RBIB31TN	£2.22	RBIB31TA	£2.31	RBIB31TV	£2.33

Terminal Blocks Per Support

	Blocks			Box
	2 x 10 <sup>2</sup> + 2 x 16 <sup>2</sup>	3 x 16 <sup>2</sup> + 1 x 25 <sup>2</sup>		
175 mm support	4	0	192 x 121	
	0	4	193 x 164 241 x 194	
225 mm support	6	0	241 x 194	
	0	5	291 x 241	
	3	3		
275 mm support	8	0	291 x 241	
	0	6		
	3	4	341 x 291	
	4	3		
Earth terminal			dim <105 x 105	

## D Series IP-55 Junction Boxes

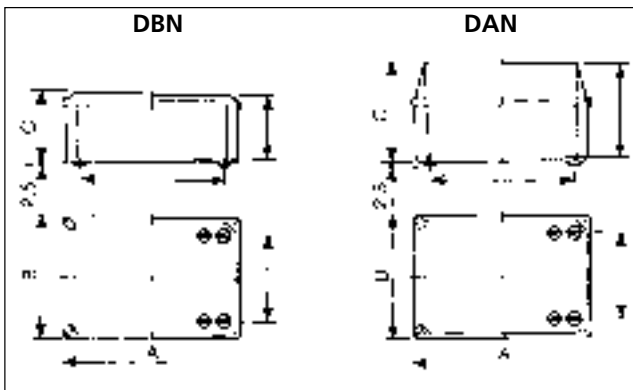
Steel boxes made of sheet steel protected internally and externally with polyester-epoxy paint to light grey RAL-7032 texturised.

- Without knock-outs:  
**DBN** with low lid and **DAN** with high lid.
- PVC sealing gasket on models up to 20/15 and rubber type for 25/20, 30/25 and 35/30
- There are four M4 threaded holes, blanked with removable bungs for direct fixing of mounting plate
- Direct wall fixing by means of blanked holes to keep the IP rating
- Base-lid safety seals available optionally



D Series IP-55 Junction Boxes								
	External Dimensions (mm)			Models Without Knock-Outs Reference <sup>1</sup>	Mounting Plates Reference <sup>2</sup>	Weight (Kg)	Price Enclosure	Price Plate
	Height (A)	Width (B)	Depth (C)					
Low-Lid Models	85	85	49	DBN-8/8	-	0,18	£5.33	-
	105	105	49	DBN-10/10	-	0,25	£6.08	-
	155	105	61	DBN-15/10	PMD 1510	0,38	£8.31	£2.91
	206	156	83	DBN-20/15	PMD 2015	1	£13.77	£3.79
	256	206	93	DBN-25/20	PMD 2520	1,5	£23.12	£6.50
	307	257	116	DBN-30/25	PMD 3025	3,3	£36.28	£8.16
High-Lid Models	357	307	136	DBN-35/30	PMD 3530	4,8	£47.62	£10.60
	155	105	88	DAN-15/10	PMD 1510	0,45	£9.80	£2.80
	206	156	122	DAN-20/15	PMD 2015	1,2	£16.00	£3.79
	256	206	140	DAN-25/20	PMD 2520	1,9	£28.46	£6.76
	307	257	174	DAN-30/25	PMD 3025	4	£44.33	£8.49
	357	307	210	DAN-35/30	PMD 3530	5,8	£59.40	£10.60

## Dimensions (mm)



### DX Series IP-55 Junction Boxes

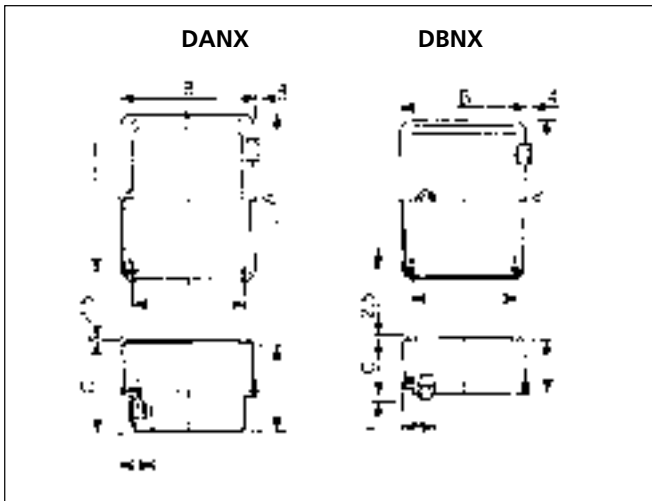
Steel hinged boxes made of sheet steel protected internally and externally with polyester-epoxy paint to light grey RAL-7032 texturised.

- Without knock-outs:  
**DBNX** with low lid and **DANX** with high lid.
- Boxes fitted with sealing gasket and M4 threaded holes blanked with removable bungs for fixing of mounting plate and or general equipment.
- Standard double bar sealable lock operated with wing key (standard supply). Affixing this key to the lock will transform it to handle lock. See other lock transformations available.



DX Series IP-55 Junction Boxes								
	External Dimensions (mm)			Models Without Knock-Outs Reference*	Mounting Plates Reference**	Weight (Kg)	Price Enclosure	Price Plate
	Height (A)	Width (B)	Depth (C)					
Low-Lid Models	206	156	83	DBNX-20/15	PMD 2015	1	<b>£26.54</b>	<b>£3.64</b>
	256	206	93	DBNX-25/20	PMD 2520	1,5	<b>£29.93</b>	<b>£6.50</b>
	307	257	116	DBNX-30/25	PMD 3025	3,3	<b>£45.70</b>	<b>£8.16</b>
	357	307	136	DBNX-35/30	PMD 3530	4,8	<b>£56.92</b>	<b>£10.19</b>
High-Lid Models	206	156	122	DANX-20/15	PMD 2015	1,2	<b>£30.50</b>	<b>£3.28</b>
	256	206	140	DANX-25/20	PMD 2520	1,9	<b>£31.13</b>	<b>£6.76</b>
	307	257	174	DANX-30/25	PMD 3025	4	<b>£52.21</b>	<b>£8.49</b>
	357	307	210	DANX-35/30	PMD 3530	5,8	<b>£65.91</b>	<b>£10.60</b>

### Dimensions (mm)



### DP Series IP-55

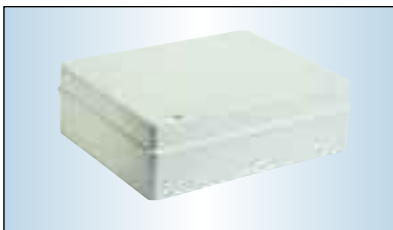
Insulated boxes consisting of base and lid made of light RAL 7035 made of ABS. Unaffected by outdoor conditions. Conform to the standard CEI 998.1 and 998.2-5.

- Self-extinguishing (750°C), double insulation, high impact resistance
- Wide dimensional range up to 10 models from Ø 66 mm to 400 x 300 mm
- All bases fit grooves for fixing of equipment through self-tapping screws
- Safety screws and lids for references as from 100 x 100
- Internal hinges for models 30/22 and 40/30
- Optional metal mounting plate
- Pushed in covers (without screws) up to model 100 x 100 (IP44), for larger models quick and reliable fixing through metal or plastic screws and sealing between base and lid (IP55)
- **DP...** series consist of 2 basic models:
  1. **DPN...** series with plain sides
  2. **DP... T** with plain sides and transparent lids made of polycarbonate
- Bases prepared for direct fixation to the wall. The caps supplied with the box will keep the watertightness and double insulation



DP Series IP-55 Junction Boxes

Dimensions (mm)			Plain Side Reference	Price	Transparent Lid Reference	Price	Mounting Plate Reference	Price	Type of Closing	Weight gr.
Height	Width	Depth								
103	103	56	DPN-10/10	£2.86	-	-	-	-	4 metal screws	160
123	83	78	DPN-12/8	£3.22	-	-	-	-	4 metal screws	160
152	114	76	DPN-15/10	£5.33	DP-15/10T	£7.19	PMDP-1510	£2.11	4 metal screws	280
194	144	78	DPN-20/15	£9.55	DP-20/15T	£10.85	PMDP-2015	£2.86	4 metal screws	433
244	194	96	DPN-25/20	£14.45	DP-25/20T	£16.81	PMDP-2520	£4.77	4 metal screws	760
306	226	127	DPN-30/22	£27.34	DP-30/22T	£30.20	PMDP-3022	£5.02	4 plastic screws	1160
389	310	128	DPN-40/30	£40.80	DP-40/30T	£44.77	PMDP-4030	£10.05	4 plastic screws	1650



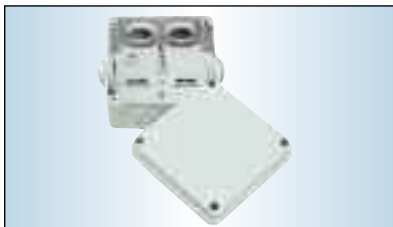
Insulated boxes without membrane gland, references DPN...



Transparent lid for references DP...T made of polycarbonate.



All bases fit grooves for fixing of equipment through self-tapping screws.



Safety lids and screws as from model 100 x 100.



Metal mounting plates to be fitted directly into the boxes by means of self-tapping screws.



Hinges included in the standard supply ready to be fitted directly into the boxes by means of self-tapping screws for the references DP...30/22 and DP...40/30.



### A Series IP-44, IP-55, IP-56 Junction Boxes

With Stepped Glands and Press Fit Lids - IP-44

Reference	Description	Price
A1	∅ 65 x 35 (round)	£0.60
A2	∅ 80 x 35 (round)	£0.74
A3	□ 80 x 80 x 40	£0.93



With Smooth Walls and Grey Screw on Lids - IP-56

Reference	Description	Price
AS05	120 x 80 x 60	£1.44
AS15	100 x 100 x 60	£1.38
AS25	150 x 100 x 60	£2.27
AS35	190 x 140 x 70	£4.31
AS45	240 x 190 x 90	£6.70
AS55*	300 x 220 x 120	£12.21
AS65*	380 x 300 x 120	£16.99

\*Lid fixing by means of plastic screws; box complete of plastic hinge.



With Smooth Walls and Transparent Screw On Lids - IP-56

Reference	Description	Price
AS25T	150 x 100 x 60	£3.11
AS35T	190 x 140 x 70	£4.72
AS45T	240 x 190 x 90	£7.66
AS55T*	300 x 220 x 120	£13.94
AS65T*	380 x 300 x 120	£23.26

\*Lid fixing by means of plastic screws; box complete of plastic hinge.



High Lid With Smooth Walls and Grey Screw On Lids - IP-55

Reference	Description	Price
ASH15	110 x 110 x 112	£3.18
ASH25	150 x 110 x 150	£5.13
ASH35	150 x 150 x 150	£8.07
ASH45	220 x 150 x 150	£9.45
ASH55	300 x 220 x 150	£14.74

\*Lid fixing by means of plastic screws; box complete of plastic hinge.



High Transparent Lid With Smooth Walls and Grey Screw On Lids - IP-55

Reference	Description	Price
ASH15T	110 x 110 x 112	£4.43
ASH25T	150 x 110 x 150	£6.70
ASH35T	150 x 150 x 150	£10.83
ASH45T	220 x 150 x 150	£12.93
ASH55T	300 x 220 x 150	£21.63



Metal Plate

Reference	Description	Price
PB1	for boxes AS3 - 35 - 35T	£2.33
PB2	for boxes AS4 - 45 - 45T	£3.05
PB3	for boxes AS5 - 55 - 55T	£3.81
PB4	for boxes AS6 - 65 - 65T	£7.11
PB5	for boxes ASH15 - ASH15T	£1.31
PB6	for boxes ASH25 - ASH25T	£1.61
PB7	for boxes ASH35 - ASH35T	£1.85
PB8	for boxes ASH45 - ASH45T	£2.08
PB9	for boxes ASH55 - ASH55T	£3.59



## C Series IP-40, IP-55 Distribution Boards

## Surface Mounting Without Door - IP-40

Reference	Description	Dimensions	Price
CT2	1-2 pole	51 x 130 x 60	£2.22
CT4	3-4 pole	88 x 130 x 60	£3.20

## Surface Mounting - Complete With Transparent Door - IP40

Reference	Description	Dimensions	Price
CT5PT	4 + 1 smooth sides	144 x 168 x 94	£6.88
CT8PT	8 smooth sides	215 x 168 x 94	£8.43
CT12PT	12 + 1 smooth sides	283 x 168 x 94	£11.19
CT24PT	24 smooth sides	256 x 326 x 101	£24.76

## Wall Mounting Enclosures - IP-55

Reference	Description	Dimensions	Price
CT3G	3 pole	83 x 175 x 114	£8.43
CT5G	5 pole	125 x 175 x 114	£10.89
CT8G	8 pole	215 x 175 x 114	£11.83
CT12G	12+1 pole	287 x 200 x 122	£21.54

## Wall Mounting Distribution Boards - IP-55

Reference	Description	Dimensions	Price
CT12NS	12 way	285 x 250 x 136	£22.73
CT24NS	24 way	285 x 375 x 136	£32.72

## Distribution Boards With Provision For CEE Sockets - IP-65

Reference	Description	Dimensions	Price
CT24GL	24 way	285 x 375 x 136	£30.99
CT36GL	36 way	285 x 500 x 136	£38.71

## Terminal Bar Supports In Polycarbonate (960°C G.W. Test)

Reference	Description	Pack Qty	Price
CTR3	For CT5G - CT5SG - CT5GT	10	£5.32
CTR4	For CT8G - CT8SG - CT8GT - CT12G CT12SG - CT12SG1 - CT12GT	10	£7.78
CTR5	For CT3G	10	£4.01

## Terminal Bar Supports In Polycarbonate (960°C G.W. Test)

Reference	Description	Pack Qty	Price
CTR6	For CT24L - CT36L	10	£30.26
CTR9	For CT5-CT5PT-CT5PT/C (1 piece steel + 1 SUM 1)	10	£5.98
CTR10	For CT8-CT8PT-CT8PT/C (1 piece steel + 1 SUM 1)	10	£8.92
CTR11	For CT12-PT-PT/C (1 piece steel + 1 SUM 1)	10	£9.45
CTR12	For CT24/36-PT-PO-PT/C-PO/C (1 piece steel + 1 SUM 2)	10	£12.32



## New CK Series – The range for every need



The CK Series offers a broad range of enclosures, which satisfy every need.

The series consists of:

- boards for modular devices 3-35 modules.
- universal boards for modular devices, power outlets and non modular devices

The series has high performance along with a tastefully designed aesthetic appearance.

### A Complete Range

The CK Series is composed by an overall of 19 watertight enclosures Mini Boards (3-12 mod), Modular Boards (12-54 mod), Mixed Boards and Universal Boards.

The Mini and Modular can receive only modular devices while the Mixed and Universal are conceived to receive within the boards also non modular devices such as voltage transformers, control devices, relay and even electronic circuits.

### High Performance

The CK Series are halogen free and guarantee a high performance due to:

- IP65 degree of protection
- IK09 high impact resistance and resistance to chemical and atmospheric agents, UVS etc.
- Class 2 insulating material
- Conformity with IEC 670 standard for empty enclosures and with IEC 60439-3 standard for equipped switchboards.

### Facilities

- Metric and PG system cable entries
- Plenty of cable space
- Two depths of Din rail positioning
- Unbreakable door joists
- Vertical and horizontal association
- Left and right door opening
- Door locking facilities available as an option
- Optional mounting plates
- Sealing kit for front face available as an option



## Mini Boards

Reference	Description	Dimensions	Price
CK003	3	90 x 150 x 111.5	£6.50
CK004	4	123 x 200 x 111.5	£7.98
CK006	6	159 x 200 x 111.5	£9.02
CK008	8	195 x 200 x 111.5	£10.23
CK012	12	267 x 200 x 111.5	£15.88



## Modular Boards

Reference	Description	Dimensions	Price
CK112	12	340 x 280 x 164	£18.47
CK118	18	448 x 460 x 164	£22.55
CK224	2 x 12	340 x 610 x 164	£27.31
CK236	2 x 18	448 x 280 x 164	£39.02
CK336	3 x 12	448 x 460 x 164	£41.19
CK354	3 x 18	448 x 610 x 164	£71.11



## Universal Boards

Reference	Description	Price
CK410	340 x 460 x 164	£18.91
CK411	340 x 610 x 164	£33.30
CK412	448 x 460 x 164	£31.22
CK413	448 x 610 x 164	£69.81



## Mixed Boards

Reference	Description	Dimensions	Price
CK505	5	138 x 460 x 153.5	£16.75
CK508	8	236 x 460 x 153.5	£20.74
CK514	13	340 x 335 x 153.5	£25.84
CK513	13	340 x 460 x 153.5	£32.26



## CK Series Specifications

- IP65 as per IEC 60529
- Conforming to standard IEC 60439-1-3
- Total insulating according to EN 60439-standard
- Halogen-free materials
- IK09 as per EN 50102
- Installation temp: - 35°C +60°C
- Glow wire test: according to 650° as per IEC 60965-2-1
- Knockouts in metric /PG system
- Resistance to harsh chemical and atmospheric agents
- Self-extinguishing insulating materials
- UV Ray resistant

Brass Terminal Bar		
Reference	Description	Price
M04	Kit of 10 pcs, each bar with 4 holes Ø 6	£8.10
M08	Kit of 10 pcs, each bar with 8 holes (2 Ø 6 + 6 Ø 4)	£10.60
M010	Kit of 10 pcs, each bar with 10 holes (2 Ø 6 + 8 Ø 4)	£12.21
M012	Kit of 10 pcs, each bar with 12 holes (2 Ø 6 + 10 Ø 4)	£15.29
M014	Kit of 10 pcs, each bar with 14 holes (2 Ø 6 + 12 Ø 4)	£19.43
M016	Kit of 10 pcs, each bar with 16 holes (2 Ø 6 + 14 Ø 4)	£22.45
M022	Kit of 10 pcs, each bar with 22 holes (11 Ø 6 + 11 Ø 4)	£25.29

Mounting Plates		
Reference	Description	Price
CK610	Mounting plate 245 x 320 for CK 410	£7.70
CK611	Mounting plate 320 x 365 for CK 412	£10.85
CK612	Mounting plate 245 x 475 for CK 411	£10.67
CK613	Mounting plate 365 x 475 for CK 413	£14.95
CK614	Mounting plate 245 x 140 for CK 508 - 513 - 514	£4.69

Terminal Bar Supports		
Reference	Description	Price
CK621	Kit of 10 terminal bar support for Mini 4 mod	£4.49
CK622	Kit of 10 terminal bar support for Mini 6 mod	£5.32
CK623	Kit of 10 terminal bar support for Mini 8 mod	£7.70
CK624	Kit of 10 terminal bar support for Mini 12 mod	£10.01
CK626	Kit of 10 terminal bar support for Mixed 8 mod	£8.66
CK627	Kit of 10 terminal bar support for boards 12/13 mod	£13.67
CK628	Kit of 10 terminal bar support for boards 18 mod	£16.17

Din Rail		
Reference	Description	Price
CK640	1 Din Rail 12 mod + 2 screws	£2.55
CK641	1 Din Rail 18 mod + 2 screws	£2.76

Other Accessories		
Reference	Description	Price
CK600	Vertical/horizontal association set	£5.11
CK601	Wall mounting brackets set (4 pcs)	£2.15
CK602	Sealing set	£6.00
CK603	Kit of 5 modules blanking (10 pcs for 5 mod each)	£1.33
CK604	Kit of 5 wire straps	£1.33
CK605	Key lock cod. 850	£9.59