

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
250	200	150	CRN-2520/150	3,2	-
300	250	150	CRN-3025/150	4,2	CRN-3025/150 KT
300	250	200	CRN-3025/200	4,9	CRN-3025/200 KT
300	300	150	CRN-33/150	5	CRN-33/150 KT
300	300	200	CRN-33/200	6	CRN-33/200 KT
300	400	200	CRN-34/200	6,4	CRN-34/200 KT
400	300	150	CRN-43/150	6	CRN-43/150 KT
400	300	200	CRN-43/200	6,8	CRN-43/200 KT
400	400	200	CRN-44/200	8	CRN-44/200 KT
400	600	250	CRN-46/250	10	CRN-46/250 KT
400	600	300	CRN-46/300	11,2	-
500	400	150	CRN-54/150	8,7	CRN-54/150 KT
500	400	200	CRN-54/200	9,8	CRN-54/200 KT
500	400	250	CRN-54/250	11	CRN-54/250 KT
500	500	250	CRN-55/250	12,8	CRN-55/250 KT
600	400	150	CRN-64/150	9,3	CRN-64/150 KT
600	400	200	CRN-64/200	10,8	CRN-64/200 KT
600	400	250	CRN-64/250	12,3	CRN-64/250 KT
600	500	150	CRN-65/150	11,3	CRN-65/150 KT
600	500	200	CRN-65/200	14,3	CRN-65/200 KT
600	500	250	CRN-65/250	16,3	CRN-65/250 KT
600	600	200	CRN-66/200	15,5	-
600	600	250	CRN-66/250	18,2	CRN-66/250 KT
600	600	300	CRN-66/300	19,8	CRN-66/300 KT
600	800	300	CRN-68/300	26	CRN-68/300 KT
700	500	200	CRN-75/200	17,3	CRN-75/200 KT
700	500	250	CRN-75/250	19,3	CRN-75/250 KT
800	600	200	CRN-86/200	21,8	CRN-86/200 KT
800	600	250	CRN-86/250	24,8	CRN-86/250 KT
800	600	300	CRN-86/300	26,3	CRN-86/300 KT
800	600	400	CRN-86/400	31	CRN-86/400 KT
800	800	200	CRN-88/200	29,5	CRN-88/200 KT
800	800	300	CRN-88/300	32,5	CRN-88/300 KT
800	1000	300	CRN-810/300**	37	-
1000	600	250	CRN-106/250	28,4	CRN-106/250 KT
1000	600	300	CRN-106/300	30,6	CRN-106/300 KT
1000	800	250	CRN-108/250	34,5	CRN-108/250 KT
1000	800	300	CRN-108/300	37,4	CRN-108/300 KT
1000	800	400	CRN-108/400	43	CRN-108/400 KT
1000	1000	300	CRN-1010/300**	46,7	CRN-1010/300 KT
1000	1200	300	CRN-1012/300**	41	CRN-1012/300 KT
1200	800	300	CRN-128/300**	44,8	CRN-128/300 KT
1200	800	400	CRN-128/400	50	CRN-128/400 KT
1200	1000	300	CRN-1210/300**	53,4	-
1200	1000	400	CRN-1210/400**	53,4	-

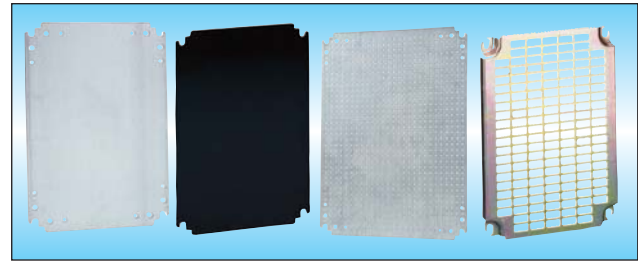
** Enclosures with 3 point lock

** IP55 Rated

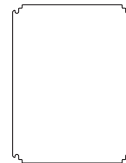
Mounting Plates for CRN

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



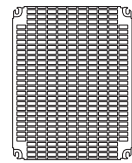
MM Zinc Coated



MB Bakelite



MF 3.60mm Dia Perforated



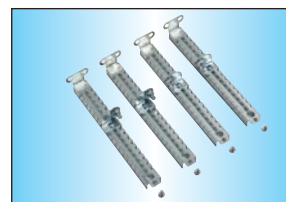
MR 4.2mm Dia Perforated

Mounting Plates		MM ZINC COATED			MB BAKELITE			MF Perforated			MR Perforated		
Height (A)	Width (B)	Reference	Thickness (mm)	Weight (Kg)	Reference	Thickness (mm)	Weight (Kg)	Reference	Thickness (mm)	Weight (Kg)	Reference	Thickness (mm)	Weight (Kg)
250	200	MM-2520	2	0,4	MB-2520	4	0,13	MF-2520	2	0,3	-	-	-
300	250	MM-3025	2	0,6	MB-3025	4	0,2	MF-3025	2	0,5	MR-3025	2	0,5
300	300	MM-33	2	1,2	MB-33	4	0,3	MF-33	2	1,1	MR-33	2	1,1
300	400	MM-34	2	1,6	MB-34	4	0,5	MF-34	2	1,5	-	-	-
400	300	MM-43	2	1,6	MB-43	4	0,5	MF-43	2	1,5	MR-43	2	1,5
400	400	MM-44	2	2,2	MB-44	4	0,7	MF-44	2	2,1	MR-44	2	2,1
400	600	MM-46	2	3,1	MB-46	4	1,1	MF-46	2	3	MR-46	2	3
500	400	MM-54	2	2,5	MB-54	4	0,9	MF-54	2	2,4	MR-54	2	2,4
500	500	MM-55	2	3,7	MB-55	4	1,2	MF-55	2	3,5	MR-55	2	3,5
600	400	MM-64	2	3,1	MB-64	4	1,1	MF-64	2	3	MR-64	2	3
600	500	MM-65	2	4	MB-65	4	1,4	MF-65	2	3,8	MR-65	2	3,8
600	600	MM-66	2	5,5	MB-66	4	1,7	MF-66	2	5,2	MR-66	2	5,2
600	800	MM-68	2,5	9,9	MB-68	4	2,3	MF-68	2	9,3	MR-68	2,5	9,3
700	500	MM-75	2	4,6	MB-75	4	1,7	MF-75	2	4,3	MR-75	2	4,3
800	600	MM-86	2,5	9,9	MB-86	4	2,3	MF-86	2,5	9	MR-86	2,5	9
800	800	MM-88	2,5	13,6	MB-88	5	4,5	MF-88	2,5	12	MR-88	2,5	12
800	1000	MM-810	2,5	16,9	MB-810	5	5,7	MF-810	2,5	16	-	-	-
1000	600	MM-106	2,5	12,6	MB-106	5	4,2	MF-106	2,5	12	MR-106	2,5	12
1000	800	MM-108	2,5	16,9	MB-108	5	5,7	MF-108	2,5	16	MR-108	2,5	16
1000	1000	MM-1010	2,5	18,6	MB-1010	5	7,1	MF-1010	2,5	17	MR-1010	2,5	17
1000	1200	MM-1012	2,5	21,7	MB-1012	5	8,3	MF-1012	2,5	20	MR-1012	2,5	20
1200	800	MM-128	2,5	17,8	MB-128	5	6,8	MF-128	2,5	17	MR-128	2,5	17
1200	1000	MM-1210	2,5	21,7	MB-1210	5	8,3	MF-1210	2,5	20	MR-1210	2,5	20

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
SDCR 200	200	Set of 4
SDCR 250	250	Set of 4
SDCR 300	300	Set of 4
SDCR 400	400	Set of 4



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
PFCR	Standard Fixing Kit



Locks for CRN

Operated by:

- Key **LDB 5**  (DIN 43668)

Converting The Standard To A Standardised Variant		
Characteristics	Key Operated Product Ref	Reference
Full Key Operated Lock with Key 405		CL/CRN
6 mm Square Key Lock	 LC-7	TC 6/CRN
7 mm Square Key Lock	 LC-7	TC 7/CRN
8 mm Square Key Lock	 LC-8	TC 8/CRN
6 mm Triangular Key Lock	 LT-6,5	TT 6/CRN
7 mm Triangular Key Lock	 LT-8	TT 7/CRN
8 mm Triangular Key Lock	 LT-8	TT 8/CRN
Stainless Steel Padlock		KPLM
Padlock Transformation		CBCCRN
Standard Double Bar Lock		CDB/CRN










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.

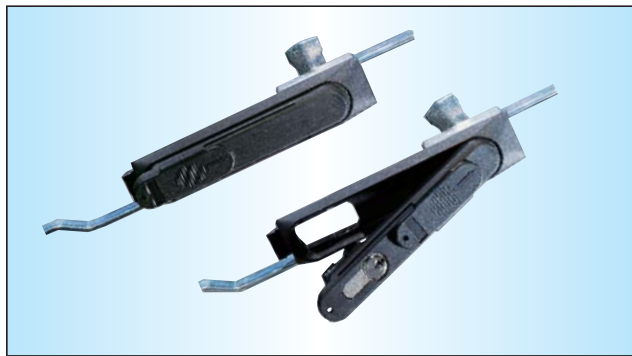
Operated by:

- 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
6 mm Square Key Lock	 LC-7	TC 6/ML
7 mm Square Key Lock	 LC-7	TC 7/ML
8 mm Square Key Lock	 LC-8	TC 8/ML
7 mm Triangular Key Lock	 LT-8	TT 7/ML
8 mm Triangular Key Lock	 LT-8	TT 8/ML
Handle Lock		TS/ML
Handle Lock with key		TL/ML



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



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



Canopies

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

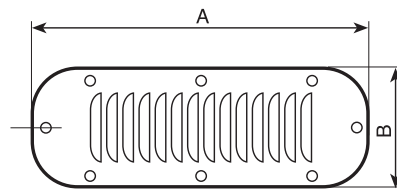


Canopies		
Reference	Width	Depth
TJ-2015	200	150
TJ-2515	250	150
TJ-2520	250	200
TJ-3015	300	150
TJ-3020	300	200
TJ-4015	400	150
TJ-4020	400	200
TJ-4025	400	250
TJ-5015	500	150
TJ-5020	500	200
TJ-5025	500	250
TJ-6020	600	200
TJ-6025	600	250
TJ-6040	600	400
TJ-8020	800	200
TJ-8025	800	250
TJ-8030	800	300
TJ-8040	800	400
TJ-10030	1000	300
TJ-10040	1000	400

Louvre Plates

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

Louvre Plates		
Reference	A	B
TR-1	144	62
TR-2	208	90
TR-3	244	90
TR-4	345	118
TR-5	345	148
TR-6	445	148



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
PIN 43	400	300
PIN 54	500	400
PIN 64	600	400
PIN 75	700	500
PIN 86	800	600
PIN 106	1000	600
PIN 108	1000	800
PIN 128	1200	800



Spray Paint

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



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 95



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

Wall fixing kit

Set of four stainless steel pieces not included as standard.

Wall Fixing Kit	
Reference	Description
PFCX	Standard Fixing Kit



Locks For CRSX Enclosures

Converting The Standard To A Standardised Variant		
Characteristics	Key	Reference
Stainless steel 6 mm square key lock	LC-7	TC 6/CSX
Stainless steel 7 mm square key lock	LC-7	TC 7/CSX
Stainless steel 8 mm triangular key lock	LF-8	TT 8/CSX
405 key lock		CL/CSX



Wall Fixing and Floor Standing Metal Enclosures



Natural toughness and strength

The range of metal enclosures offer maximum reliability and versatility that are suitable for installations of all kinds, from electrical distribution to the most sophisticated process automation and robotisation.

This broad range, includes monobloc enclosures for wall mounting or floor-standing use, manufactured either in steel or in stainless steel.

The multifunctionality of this range is ensured by the various installation systems that complement it: mounting plates, distribution chassis, internal doors, plinths...

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
Nominal Height	Dimensions Width	Dimensions Depth	No. of Doors	
1000	1000	300	2	CMO 1010/30 PM
1200	800	300	1	CMO 128/30 PM
1200	1000	300	2	CMO 1210/30 PM
1200	1200	400	2	CMO 1212/40 PM
1400	600	300	1	CMO 146/30 PM
1400	600	400	1	CMO 146/40 PM
1400	800	300	1	CMO 148/30 PM
1400	800	400	1	CMO 148/40 PM
1400	1000	400	2	CMO 1410/40 PM
1400	1200	400	2	CMO 1412/40 PM
1600	600	300	1	CMO 166/30 PM
1600	600	400	1	CMO 166/40 PM
1600	800	300	1	CMO 168/30 PM
1600	800	400	1	CMO 168/40 PM
1600	1000	300	2	CMO 1610/30 PM
1600	1000	400	2	CMO 1610/40 PM
1600	1200	300	2	CMO 1612/30 PM
1600	1200	400	2	CMO 1612/40 PM
1800	600	300	1	CMO 186/30 PM
1800	600	400	1	CMO 186/40 PM
1800	800	300	1	CMO 188/30 PM
1800	800	400	1	CMO 188/40 PM
1800	800	500	1	CMO 188/50 PM
1800	800	600	1	CMO 188/60 PM
1800	1000	400	2	CMO 1810/40 PM
1800	1000	500	2	CMO 1810/50 PM
1800	1200	400	2	CMO 1812/40 PM
1800	1200	500	2	CMO 1812/50 PM
1800	1600	400	2	CMO 1816/40 PM

CMO IP-55 Floor Standing Steel Enclosure				Reference
Nominal Height	Dimensions Width	Dimensions Depth	No. of Doors	
1800	1600	500	2	CMO 1816/50 PM
2000	600	300	1	CMO 206/30 PM
2000	600	400	1	CMO 206/40 PM
2000	800	300	1	CMO 208/30 PM
2000	800	400	1	CMO 208/40 PM
2000	800	500	1	CMO 208/50 PM
2000	800	600	1	CMO 208/60 PM
2000	1000	400	2	CMO 2010/40 PM
2000	1000	500	2	CMO 2010/50 PM
2000	1200	400	2	CMO 2012/40 PM
2000	1200	500	2	CMO 2012/50 PM
2000	1200	600	2	CMO 2012/60 PM
2000	1600	400	2	CMO 2016/40 PM
2000	1600	500	2	CMO 2016/50 PM
2000	1600	600	2	CMO 2016/60 PM

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
Width	Depth		
600	300	ZUN 63/100	ZUN 63/200
600	400	ZUN 64/100	ZUN 64/200
800	300	ZUN 83/100	ZUN 83/200
800	400	ZUN 84/100	ZUN 84/200
800	500	ZUN 85/100	ZUN 85/200
800	600	ZUN 86/100	ZUN 86/200
1000	300	ZUN 103/100	ZUN 103/200
1000	400	ZUN 104/100	ZUN 104/200
1000	500	ZUN 105/100	ZUN 105/200
1200	300	ZUN 123/100	ZUN 123/200
1200	400	ZUN 124/100	ZUN 124/200
1200	500	ZUN 125/100	ZUN 125/200
1200	600	ZUN 126/100	ZUN 126/200
1600	400	ZUN 164/100	ZUN 164/200
1600	500	ZUN 165/100	ZUN 165/200
1600	600	ZUN 166/100	ZUN 166/200



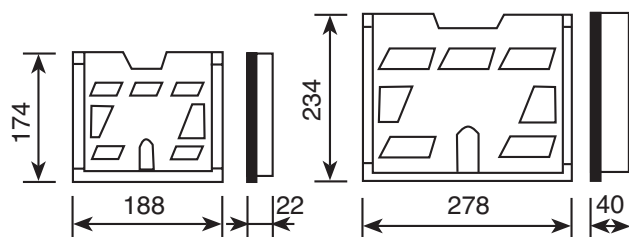
Plan Pocket

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
PP-A4	A4
PP-A5	A5

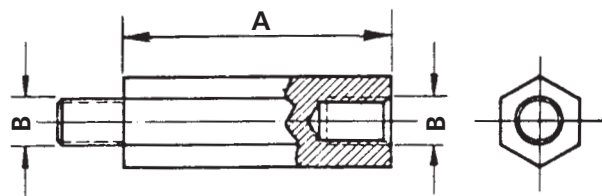
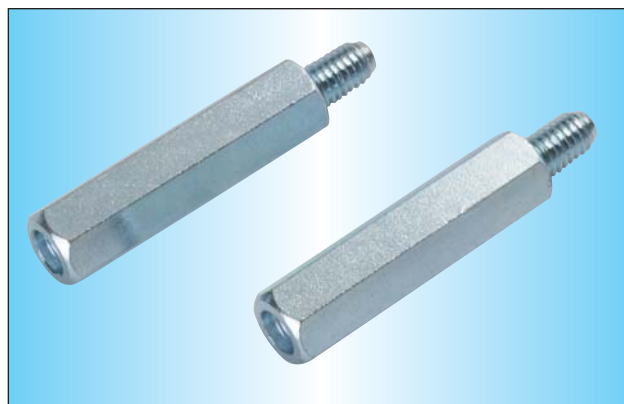


Reference	Description
TMO12	Set of 2 M12 lifting eyebolts bolted directly to the cubicle structure.



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
EX-10/6	10	M-6	50
EX-12/6	12	M-6	50
EX-14/6	14	M-6	50
EX-16/6	16	M-6	50
EX-18/6	18	M-6	50
EX-20/6	20	M-6	50
EX-30/6	30	M-6	20
EX-40/6	40	M-6	20
EX-50/6	50	M-6	20
EX-100/6	100	M-6	20
EX-15/8	15	M-8	50
EX-20/8	20	M-8	50
EX-30/8	30	M-8	20
EX-40/8	40	M-8	20
EX-50/8	50	M-8	20
EX-100/8	100	M-8	20

Lock Options



CMO Flat Lock options	
Reference	Description
TPC6/OLN	6mm Square Insert
TPC7/OLN	6mm Square Insert
TPC8/OLN	6mm Square Insert
TPT7/OLN	7mm Triangular Insert
TPT8/OLN	8mm Triangular Insert
EMP/OLN	Flat cover plate

CMO Handle Lock options	
Reference	Description
TL/OLN	405 Key lock insert
TLR/OLN	H/Duty Key lock insert
TT7/OLN	7mm Triangular Insert
TT8/OLN	8mm Triangular Insert
TT9/OLN	9mm Triangular Insert
TT10/OLN	10mm Triangular Insert
TC6/OLN	6mm Square Insert
TC7/OLN	7mm Square Insert
TC8/OLN	8mm Square Insert
BC/OLN	Pad lock
MCS/OLN	Handle lock

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.

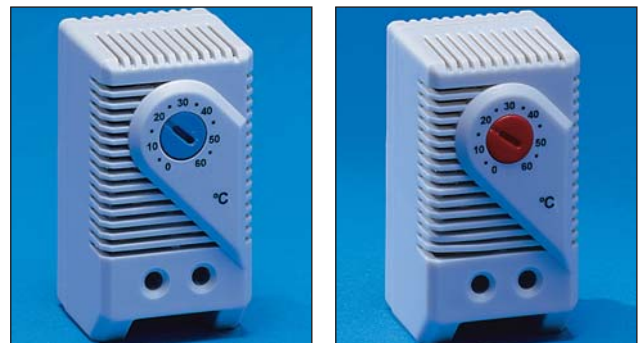


Reference	Dimensions mm	Voltage V	Power W
RC-10	25 x 50 x 50	110-250	10
RC-20	25 x 50 x 75	110-250	20
RC-55	70 x 50 x 140	110-250	55
RC-90	70 x 50 x 140	110-250	90
RC-150	70 x 50 x 220	110-250	150
RC-250	70 x 50 x 220	220-230	250
RC-400	70 x 50 x 220	220-230	400
RCV-400	80 x 80 x 248	220-230	400
03000.0-00 (RC-60V200)	120 x 120 x 25	140-250	60/200

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
TS 140	Red	Normally Closed
TS 141	Blue	Normally Open

Fans & Filters

- New grill design
- Flush grill
- Quick clip-on assembly

These 3 innovations make your switchboard look better and they significantly reduce assembly time.

General Characteristics

Fans comprise an axial motor protective casing on the front and the back, and a filter designed to retain dust particles. This filter can be removed during operation without any risk of contact with the rotating element. The equipment can optionally be fitted with an additional fine filter for protecting your dust sensitive installations even more effectively. The drilling template supplied with the device avoids marking and protects the surface of the enclosure during the machining operation.

Fan Usage Conditions

- The outside temperature T_e must be 5°C below the temperature T_s required within the enclosure
- Filters used with the fans must be regularly cleaned or replaced
- The surroundings must be relatively "clean" in order not to pollute the inside of the enclosure and avoid the need to replace the filters too frequently.



Fans & Filters				
Reference	Dimensions mm	Voltage AC	Air Volume Per Hour	Pack Qty
GNV1200220	130 x 130	230/50/60Hz	50m ³	1
GNV1200222	130 x 130	115/50/60Hz	50m ³	1
GNF12	Filter To Suit Above	-	-	1
FAGN12	Filter Mat To Suit Above	-	-	10
GNV2500220	255 x 255	230/50/60Hz	100m ³	1
GNV2500222	255 x 255	115/50/60Hz	100m ³	1
GNV250/1220	255 x 255	230/50/60Hz	220m ³	1
GNV250/1222	255 x 255	115/50/60Hz	220m ³	1
GNF25	Filter To Suit Above	-	-	1
FAGN25	Filter Mat To Suit Above	-	-	10

Glass-Reinforced Polyester Enclosures



Strength and Durability under all Conditions

The range of glass reinforced polyester enclosures are ideal for installation in salty, corrosive, aggressive harsh environments.

We provide a wide range of enclosures and modular boxes for commercial, infrastructure and industrial sectors, with specific solutions for power distribution, kW/h gas and water meter enclosures, etc.

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



PLM IP-66 Wall Mounting Enclosure

External Dimensions			Plain Door	Transparent Door
Height	Width	Depth		
310	215	160	PLM-32*	PLM-32/KT*
308	255	160	PLM-3025	PLM-3025/KT
430	330	200	PLM-43	PLM-43/KT
530	430	200	PLM-54	PLM-54/KT
647	436	250	PLM-64	PLM-64/KT
747	536	300	PLM-75	PLM-75/KT
847	636	300	PLM-86	PLM-86/KT
1056	852	350	PLM-108**	PLM-108KT**

*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.

Air Vents	
Reference	Description
VM-35	For Connecting to the Inside of POLYMEL Enclosures



Draining Device

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

Draining Device	
Reference	Description
VEA-9	For Fitting to All Cabinets









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
6 mm square lock	 LC-7	TC6/CRN
7 mm square lock	 LC-7	TC7/CRN
8 mm square lock	 LC-8	TC8/CRN
6,5 mm triangular lock	 LT-6,5	TT7/CRN
8 mm triangular lock	 LT-8	TT8/CRN
wing key lock		TL/PLM
stainless steel padlock		KPLM
double back wing key		CDB/PLM



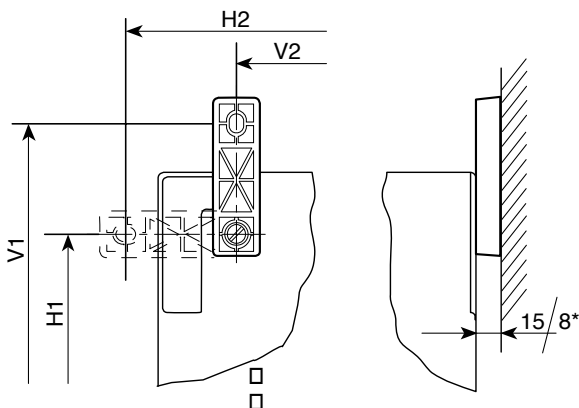
Wall mounting set

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



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/m²
- 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



PLA IP65				
Reference	Nominal Dimensions (mm)			No of Doors
	Height	Width	Depth	
PLA 553	500	500	320	1
PLA 554	500	500	420	1
PLA 573	500	750	320	1
PLA 574	500	750	420	1
PLA 5103	500	1000	320	2
PLA 5104	500	1000	420	2
PLA 5123	500	1250	320	2
PLA 5124	500	1250	420	2
PLA 753	750	500	320	1
PLA 754	750	500	420	1
PLA 773	750	750	320	1
PLA 774	750	750	420	1
PLA 7103	750	1000	320	2
PLA 7104	750	1000	420	2
PLA 7123	750	1250	320	2
PLA 7124	750	1250	420	2
PLA 1053	1000	500	320	1
PLA 1054	1000	500	420	1
PLA 1073	1000	750	320	1
PLA 1074	1000	750	420	1

PLA IP65				
Reference	Nominal Dimensions (mm)			No of Doors
	Height	Width	Depth	
PLA 10103	1000	1000	320	2
PLA 10104	1000	1000	420	2
PLA 10123	1000	1250	320	2
PLA 10124	1000	1250	420	2
PLA 1253	1250	500	320	1
PLA 1254	1250	500	420	1
PLA 1273	1250	750	320	1
PLA 1274	1250	750	420	1
PLA 12103	1250	1000	320	2
PLA 12104	1250	1000	420	2
PLA 12123	1250	1250	320	2
PLA 12124	1250	1250	420	2
PLA 1553	1500	500	320	1
PLA 1554	1500	500	420	1
PLA 1573	1500	750	320	1
PLA 1574	1500	750	420	1
PLA 15103	1500	1000	320	2
PLA 15104	1500	1000	420	2
PLA 15123	1500	1250	320	2
PLA 15124	1500	1250	420	2

Other Options

Glazed Door

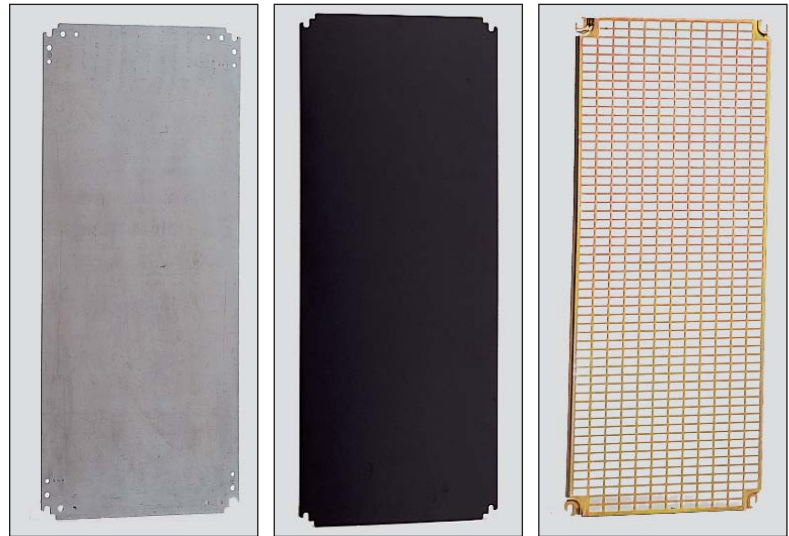


Ribbed Door

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










Mounting Plates		
External Dimensions (mm) Height	Width	Metal Mounting Plate
500	500	PMM 55
	750	-
	1000	PMM 510
750	1250	PMM 55 + PMM 75
	500	PMM 75
	750	PMM 77
	1000	PMM 710
	1250	PMM 712
1000	500	PMM 105
	750	PMM 107
	1000	PMM 1010
	1250	PMM 1012
1250	500	PMM 125
	750	PMM 127
	1000	PMM 1210
1500	1250	PMM 1212
	500	PMM 155
	750	PMM 157
	1000	PMM 1510
	1250	PMM 1512

Insulating Mounting Plate
PMB 55
-
PMB 510
PMB 55 + PMB 75
PMB 75
PMB 77
PMB 710
PMB 712
PMB 105
PMB 107
PMB 1010
PMB 1012
PMB 125
PMB 127
PMB 1210
PMB 1212
PMB 155
PMB 157
PMB 1510
PMB 1512

Perforated Mounting Plate
PMR 55
PMR 57
PMR 55 + PMR 55
PMR 55 + PMR 57
PMR 75
PMR 77
PMR 75 + PMR 75
PMR 75 + PMR 77
PMR 105
PMR 107
PMR 105 + PMR 105
PMR 105 + PMR 107
PMR 125
PMR 127
PMR 125 + PMR 125
PMR 125 + PMR 127
PMR 155
PMR 157
PMR 155 + PMR 155
PMR 155 + PMR 157

Standard Lock options for Closed Top PLA Enclosures

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

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
PLS 1827	180	270	180
PLS 2727	270	270	180
PLS 2736	270	360	180
PLS 2754	270	540	180
PLS 3636	360	360	180
PLS 3654	360	540	180
PLS 5454	540	540	180

Polycarbonate Transparent High Lid

Reference	Height	Width	Depth
PLS 2727 A	270	270	230
PLS 2736 A	370	360	230
PLS 2754 A	270	540	230
PLS 3654 A	360	540	230
PLS 5454 A	540	540	230
PLS 3672 A	360	720	230
PLS 5472 A	540	720	230

Polyester Lid Boxes

Reference	Height	Width	Depth
PLSP 1827	180	270	180
PLSP 2727	270	270	180
PLSP 2736	270	360	180
PLSP 2754	270	540	180
PLSP 3636	360	360	180
PLSP 3654	360	540	180
PLSP 5454	540	540	180

Mounting Plate

Steel Mounting Plates

Reference	Height	Width	Thickness
PMM 1827	140	230	2
PMM 2727	230	230	2
PMM 2736	230	320	2
PMM 2754	230	500	2
PMM 3636	320	320	2
PMM 3654	320	500	2
PMM 5454	500	500	2
PMM 3672	320	680	2.5
PMM 5472	500	680	2.5



Polycarbonate Opaque Low Lid

Reference	Height	Width	Depth
PLSO 1827	180	270	180
PLSO 2727	270	270	180
PLSO 2736	270	360	180
PLSO 2754	270	540	180
PLSO 3636	360	360	180
PLSO 3654	360	540	180
PLSO 5454	540	540	180

Polycarbonate Opaque High Lid

Reference	Height	Width	Depth
PLSO 2727 A	270	270	230
PLSO 2736 A	270	360	230
PLSO 2754 A	270	540	230
PLSO 3654 A	360	540	230
PLSO 5454 A	540	540	230
PLSO 3672 A	360	720	230
PLSO 5472 A	540	720	230

Polyester Mounting Plates

Reference	Height	Width	Thickness
PMA 1827	140	230	3
PMA 2727	230	230	3
PMA 2736	230	320	3
PMA 2754	230	500	3
PMA 3636	320	320	3
PMA 3654	320	500	4
PMA 5454	500	500	4
PMA 3672	320	680	4
PMA 5472	500	680	4

Hinged windows

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

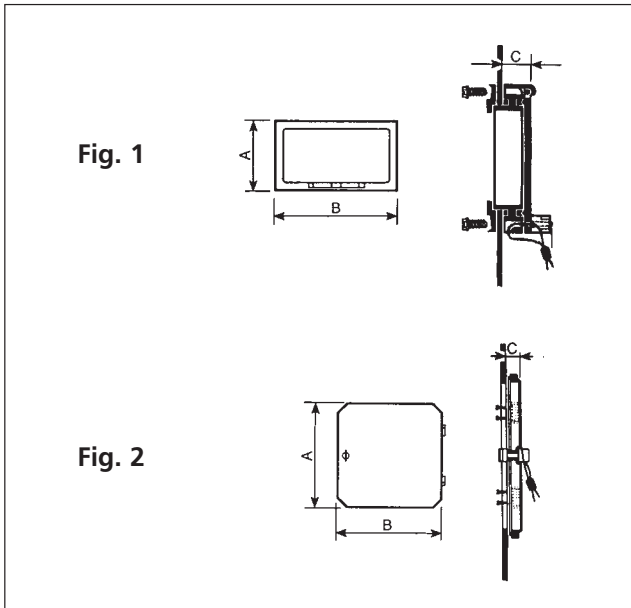


Fig. 1



Fig. 2

Hinged Windows

Reference Standard Lid	Reference High Lid	No of Poles (18mm)	fig.	A	B	C Standard Lid	C High Lid
VA 27/2M	VA 27/2MA	2	1	78	60	15	25
VA 27/4M	VA 27/4MA	4	1	78	95	15	25
VA 27/6M	VA 27/6MA	6	1	78	130	15	25
VA 27/8M	VA 27/8MA	8	1	78	165	15	25
VA 27/10M	VA 27/10MA	10	1	78	200	15	25
VA 27/12M	VA 27/12MA	12	1	78	235	15	25
VA 27/16M	-	16	2	195	165	13	-
VA 27/24M	-	24*	2	196	235	13	-

* Rows of 12 modules each.

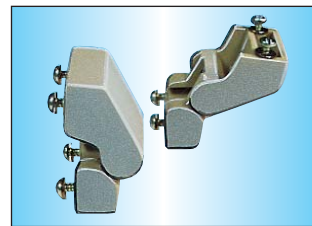
Hinges

For fixing directly on to any type of box.

- External hinges, opening approximately to 180°

Hinges

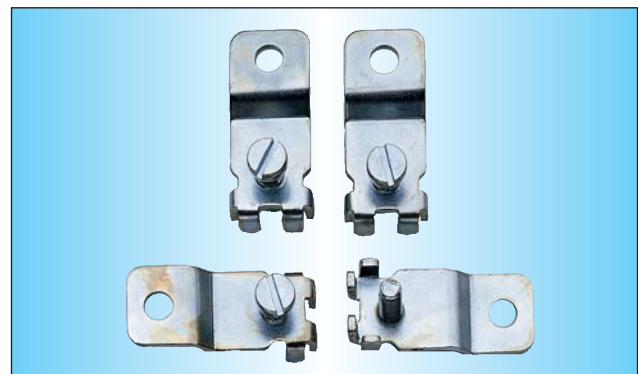
Reference	Description	Pack Qty
BE 27	External Hinge	2



Wall Fixing Kit

Wall Fixing Kit

Reference	Description	Pack Qty
PF-27	Fixing Kit	4



Industrial Boxes

Innovation:	to respond to the ongoing evolutions of manufacturers.
Performance:	of design and materials to resist the most severe environments.
Complete:	to offer a wide choice with logical progression of dimensions.
Customisation:	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

Available from mid 2006, contact us for details

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

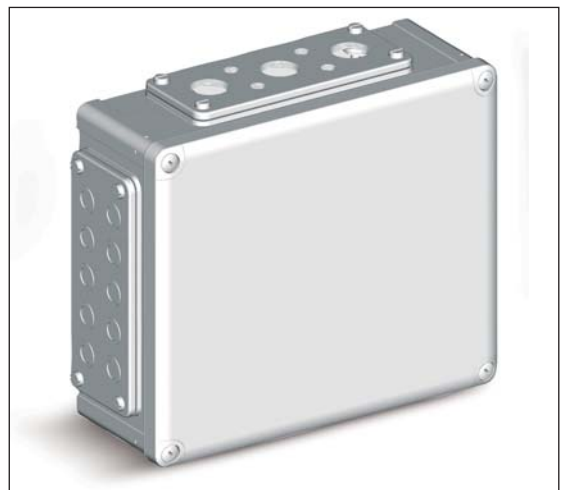
FUNCTIONAL OFFER

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 \varnothing 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:

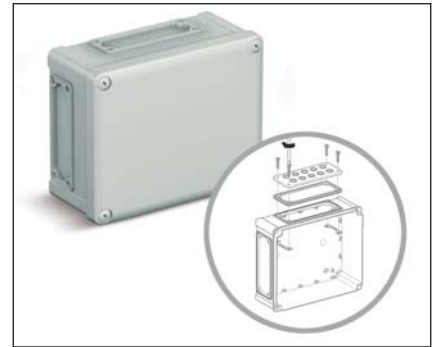
- IP66 to standard IEC 60529.
- NEMA 4 & 4X to NEMA 250.
- Class II to IEC 536.
- Colour: box grey RAL7035, covers smoked transparent.
- Halogen-free insulating plastic materials.
- Resistance to chemical and atmospheric agents.
- According to standard EN 62208.
- PC Boxes.
- IK08 (5J) to EN 50102.
-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

External Dimensions (mm)				Reference				Reference (UL)			
Height	Width	Depth	Cover Height	Opaque Cover		Transparent Cover		Opaque Cover		Transparent Cover	
74	74	54	10	IBP77/5		-		IBP775UL		-	
89	89	54	10	IBP88/5		-		IBP88/5UL		-	
116	74	62	10	IBP117/6		-		IBP117/6UL		-	
116	116	62	10	IBP1111/6		-		IBP1111/6UL		-	
138	93	72	20	IBP139/7		IBP139/7T		IBP139/7UL		IBP139/7TUL	
164	121	87	20	IBP1612/8		IBP1612/8T		-		IBP1612/8TUL	
192	121	87	20	IBP1912/8		IBP1912/8T		IBP1912/8UL		IBP1912/8TUL	
192	121	105	40	IBP1912/10		IBP1912/10T		IBP1912/10UL		IBP1912/10TUL	
193	164	87	20	IBP1916/8		IBP1916/8T		IBP1916/8UL		IBP1916/8TUL	
193	164	105	40	IBP1916/10		IBP1916/10T		IBP1916/10UL		IBP1916/10TUL	
241	194	87	20	IBP2419/8		IBP2419/8T		IBP2419/8UL		IBP2419/8TUL	
241	194	105	40	IBP2419/10		IBP2419/10T		IBP2419/10UL		IBP2419/10TUL	
241	194	127	60	IBP2419/12		IBP2419/12T		IBP/2419/12UL		IBP2419/12TUL	
291	241	88	20	IBP2924/8		IBP2924/8T		IBP2924/8UL		IBP2924/8TUL	
291	241	128	20	IBP2924/12		IBP2924/12T		IBP2924/12UL		IBP2924/12TUL	
291	241	128	60	IBP2924/12A		IBP2924/12AT		IBP2924/12AUL		IBP2924/12ATUL	
291	241	168	60	IBP2924/16		IBP2924/16T		IBP2924/16UL		IBP2924/16TUL	
341	291	128	20	IBP3429/12		IBP3429/12T		IBP3429/12UL		IBP3429/12TUL	
341	291	168	60	IBP3429/16		IBP3429/16T		IBP3429/16UL		IBP3429/16TUL	

Boxes for mounting plates

Features:

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



Boxes for mounting plates			Boxes for mounting plates		
External Dimensions (mm)			Opaque Cover	Price	Trans. Cover
Height	Width	Depth			
241	194	87	IBP2419/8ST	£22.16	IBP2419/8TST
291	241	88	IBP2924/12ST	£37.90	IBP2924/12TST
341	291	128	IBP3429/12ST	£43.45	IBP3429/12TST

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.



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

*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

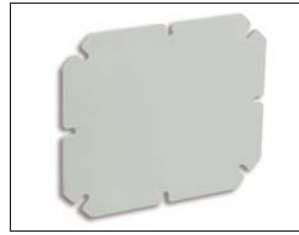


Push button boxes			Push button boxes		
External Dimensions (mm)			Reference	Holes	Entries 16/20 mm
Height	Width	Depth			
74	74	54	IBS77/5P1PE*	1 (emergency stop)	4
116	74	62	IBS117/6P2	2 (start/stop)	6
116	74	62	IBS117/6P3	3 (raise/lower/stop)	6

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	Insulating
193	164	87	PMIB1916	PMAIB1916
241	194	87	PMIB2419	PMAIB2419
241	194	127	PMIB2419	PMAIB2419
291	241	88	PMIB2924	PMAIB2924
341	291	128	PMIB3429	PMAIB3429

Fixing Lugs

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



Mounting kit for entry plate	
Description	Reference
Fixing Lugs	PFIB

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/m².
- Hinges (sets of 2) are supplied with screws and installation instructions.



Hinges	20mm	40mm
Reference	BIB 20	BIB 40

Association Kit

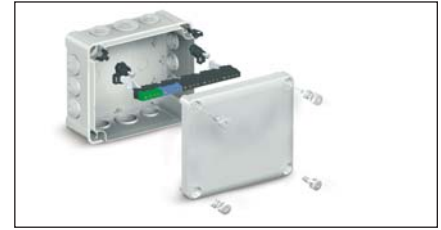
- The association kit enables side-by-side mounting of boxes from size 138 x 93mm, without reducing IP.
- Kit installation is by drilling an M32 hole in boxes to be associated. To increase wire passage capacity, a second kit can be added after drilling an additional M32 hole.
- Kit comprises 2 connection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



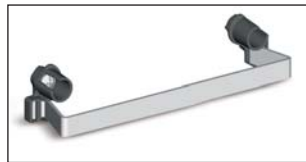
Association kit	
Description	Reference
Association Kit	UMDHS

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 2.5mm².



Terminal Blocks		Reference
Internal Dimensions width x depth		
175mm x 60mm		SBIB4
225mm x 80mm		SBIB6
275mm x 100mm		SBIB8



Terminal Blocks				
Description	Holes	Black	Blue	Green
2 x 10 ² + 2 x 16 ²	4	RBIB22TN	RBIB22TA	RBIB22TV
3 X 16 ² + 1 x 25 ²	4	RBIB31TN	RBIB31TA	RBIB31TV

Terminal Blocks Per Support				
	Blocks			Box
	2 x 10 ² + 2 x 16 ²	3 x 16 ² + 1 x 25 ²		
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.

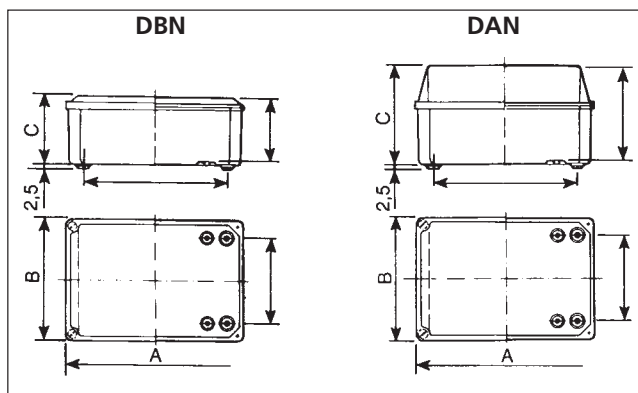
- Without knock-outs:
DBN with low lid and **DAN** with high lid.
- PVC sealing gasket on models up to 20/15 and rubber type for 25/20, 30/25 and 35/30
- There are four M4 threaded holes, blanked with removable bungs for direct fixing of mounting plate
- Direct wall fixing by means of blanked holes to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



D Series IP-55 Junction Boxes

	External Dimensions (mm)			Models Without Knock-Outs Reference'	Mounting Plates Reference''	Weight (Kg)
	Height (A)	Width (B)	Depth (C)			
Low-Lid Models	85	85	49	DBN-8/8	-	0,18
	105	105	49	DBN-10/10	-	0,25
	155	105	61	DBN-15/10	PMD 1510	0,38
	206	156	83	DBN-20/15	PMD 2015	1
	256	206	93	DBN-25/20	PMD 2520	1,5
	307	257	116	DBN-30/25	PMD 3025	3,3
High-Lid Models	357	307	136	DBN-35/30	PMD 3530	4,8
	155	105	88	DAN-15/10	PMD 1510	0,45
	206	156	122	DAN-20/15	PMD 2015	1,2
	256	206	140	DAN-25/20	PMD 2520	1,9
	307	257	174	DAN-30/25	PMD 3025	4
	357	307	210	DAN-35/30	PMD 3530	5,8

Dimensions (mm)



DX Series IP-55 Junction Boxes

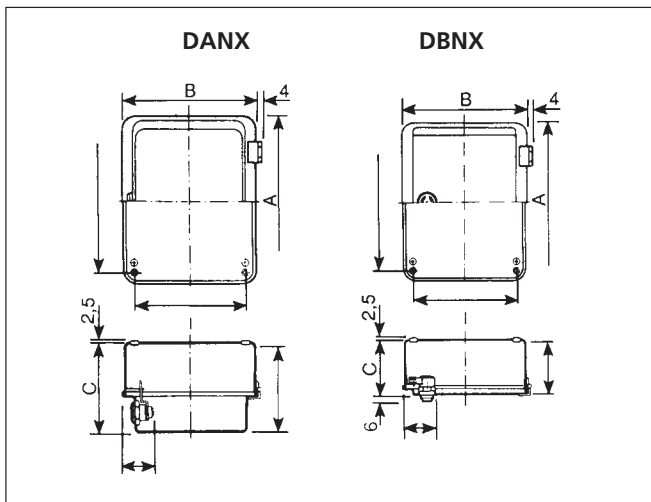
Steel hinged boxes made of sheet steel protected internally and externally with polyester-epoxy paint to light grey RAL-7032 texturised.

- 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)
	Height (A)	Width (B)	Depth (C)			
Low-Lid Models	206	156	83	DBNX-20/15	PMD 2015	1
	256	206	93	DBNX-25/20	PMD 2520	1,5
	307	257	116	DBNX-30/25	PMD 3025	3,3
	357	307	136	DBNX-35/30	PMD 3530	4,8
High-Lid Models	206	156	122	DANX-20/15	PMD 2015	1,2
	256	206	140	DANX-25/20	PMD 2520	1,9
	307	257	174	DANX-30/25	PMD 3025	4
	357	307	210	DANX-35/30	PMD 3530	5,8

Dimensions (mm)



CI-CIP IP-66 Junction Boxes

Insulating boxes comprising a base and cover.

- **CI...** models manufactured in PVC, resistant to temperatures up to 70°C
- **CIP...** models manufactured in polycarbonate resistant to temperatures up to 125°C
- Polished surfaces. Colour: grey to RAL-7035
- Fire-retardant, double insulation
- Degree of impact protection:
 - PVC IK5
 - IK7 polycarbonate
- Seal included with all models
- **CI...T** have a transparent polycarbonate cover
- **CI...A, B, D** boxes for different cover depths
- Internal and external hinges available as accessories
- Quick fit stainless steel or insulating (depending on model) cover-base connecting screws
- Metal mounting plates available as accessories
- Direct wall fixing or fixing via wall fixing feet
- Sealed at two points
- Degree of protection:
 - IP66
 - IP55 in the case of PVC **CI** boxes larger than **CI2722**
 - IP54 for hinged boxes.



CI-CIP IP-66 Junction Boxes

External Dimensions			Product Reference PVC Opaque Lid	Product Reference POLYCARBONATE Opaque Lid		Screw Type	Mounting Plate
Height	Width	Depth			Transparent Lid		
105	105	66	CI1010	-	CIP1010T	Metal	-
105	105	140	CI1010A	CIP1010A	-	Metal	-
110	75	58	CI117	-	CIP117T	Metal	-
105	75	89	CI117A	-	-	Metal	-
135	74	72	CI137	CIP137	CIP137T	Metal	-
135	74	105	CI137A	CIP137A	-	Metal	-
170	105	82	CI1710	CIP1710	CIP1710T	Polyamide	PMCI1710
170	105	112	CI1710A	CIP1710A	-	Polyamide	PMCI1710
170	135	85	CI1713	CIP1713	CIP1713T	Polyamide	PMCI1713
170	135	107	CI1713B	CIP1713B	CIP1713BT	Polyamide	PMCI1713
170	135	145	CI1713A	CIP1713A	-	Polyamide	PMCI1713
170	135	147	-	-	-	Metal	PMCI1713
170	135	175	-	CIP1713D	CIP1713DT	Metal	PMCI1713
170	135	205	-	-	-	Metal	PMCI1713
170	135	239	-	-	-	Metal	PMCI1713
220	168	85	CI2216B	-	-	Polyamide	PMCI2216
220	168	106	CI2216	CIP2216	CIP2216T	Polyamide	PMCI2216
220	168	142	-	CIP2216A	CIP2216AT	Polyamide	PMCI2216
230	220	112	-	-	-	Polyamide	-
230	220	126	-	-	-	Polyamide	-
245	135	80	-	-	-	Metal	PMCI1713
270	220	105	CI2722	CIP2722	-	Polyamide	PMCI2722
270	220	125	CI2722A	-	-	Polyamide	PMCI2722
270	220	167	-	CIP2722B	CIP2722BT	Polyamide	PMCI2722
313	253	115	CI3125	CIP3125	CIP3125T	Polyamide	PMCI3125
313	253	165	CI3125A	-	-	Polyamide	PMCI3125
350	280	105	CI3528	CIP3528	CIP3528T	Polyamide	PMCI3528
350	280	164	CI3528A	CIP3528A	CIP3528AT	Polyamide	PMCI3528

The CI and CIP Range of junction boxes are available until mid 2006.
Please see page 112 for our new range of junction boxes

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	Transparent Lid Reference	Mounting Plate Reference	Type of Closing	Weight gr.
Height	Width	Depth					
103	103	56	DPN-10/10	-	-	4 metal screws	160
123	83	78	DPN-12/8	-	-	4 metal screws	160
152	114	76	DPN-15/10	DP-15/10T	PMDP-1510	4 metal screws	280
194	144	78	DPN-20/15	DP-20/15T	PMDP-2015	4 metal screws	433
244	194	96	DPN-25/20	DP-25/20T	PMDP-2520	4 metal screws	760
306	226	127	DPN-30/22	DP-30/22T	PMDP-3022	4 plastic screws	1160
389	310	128	DPN-40/30	DP-40/30T	PMDP-4030	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.

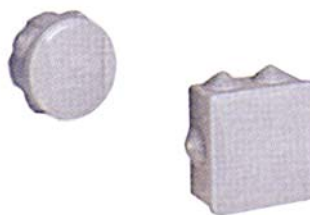


Hinges included in the standard supply ready to be fitted directly into the boxes by means of self-tapping screws for the references DP...30/22 and DP...40/30.

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

With Stepped Glands and Press Fit Lids - IP-44

Reference	Description
A1	∅ 65 x 35 (round)
A2	∅ 80 x 35 (round)
A3	□ 80 x 80 x 40



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

Reference	Description
AS05	120 x 80 x 60
AS15	100 x 100 x 60
AS25	150 x 100 x 60
AS35	190 x 140 x 70
AS45	240 x 190 x 90
AS55*	300 x 220 x 120
AS65*	380 x 300 x 120

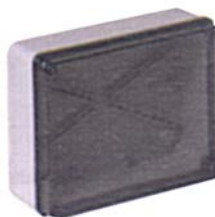
*Lid fixing by means of plastic screws; box complete of plastic hinge.



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

Reference	Description
AS25T	150 x 100 x 60
AS35T	190 x 140 x 70
AS45T	240 x 190 x 90
AS55T*	300 x 220 x 120
AS65T*	380 x 300 x 120

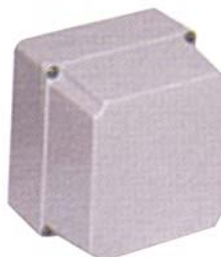
*Lid fixing by means of plastic screws; box complete of plastic hinge.



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

Reference	Description
ASH15	110 x 110 x 112
ASH25	150 x 110 x 150
ASH35	150 x 150 x 150
ASH45	220 x 150 x 150
ASH55	300 x 220 x 150

*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
ASH15T	110 x 110 x 112
ASH25T	150 x 110 x 150
ASH35T	150 x 150 x 150
ASH45T	220 x 150 x 150
ASH55T	300 x 220 x 150



Metal Plate

Reference	Description
PB1	for boxes AS3 - 35 - 35T
PB2	for boxes AS4 - 45 - 45T
PB3	for boxes AS5 - 55 - 55T
PB4	for boxes AS6 - 65 - 65T
PB5	for boxes ASH15 - ASH15T
PB6	for boxes ASH25 - ASH25T
PB7	for boxes ASH35 - ASH35T
PB8	for boxes ASH45 - ASH45T
PB9	for boxes ASH55 - ASH55T



C Series IP-40, IP-55 Distribution Boards

Surface Mounting Without Door - IP-40

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

Surface Mounting - Complete With Transparent Door - IP40

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

Wall Mounting Enclosures - IP-55

Reference	Description	Dimensions
CT3G	3 pole	83 x 175 x 114
CT5G	5 pole	125 x 175 x 114
CT8G	8 pole	215 x 175 x 114
CT12G	12+1 pole	287 x 200 x 122

Wall Mounting Distribution Boards - IP-55

Reference	Description	Dimensions
CT12NS	12 way	285 x 250 x 136
CT24NS	24 way	285 x 375 x 136

Distribution Boards With Provision For CEE Sockets - IP-65

Reference	Description	Dimensions
CT24GL	24 way	285 x 375 x 136
CT36GL	36 way	285 x 500 x 136

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

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

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

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

