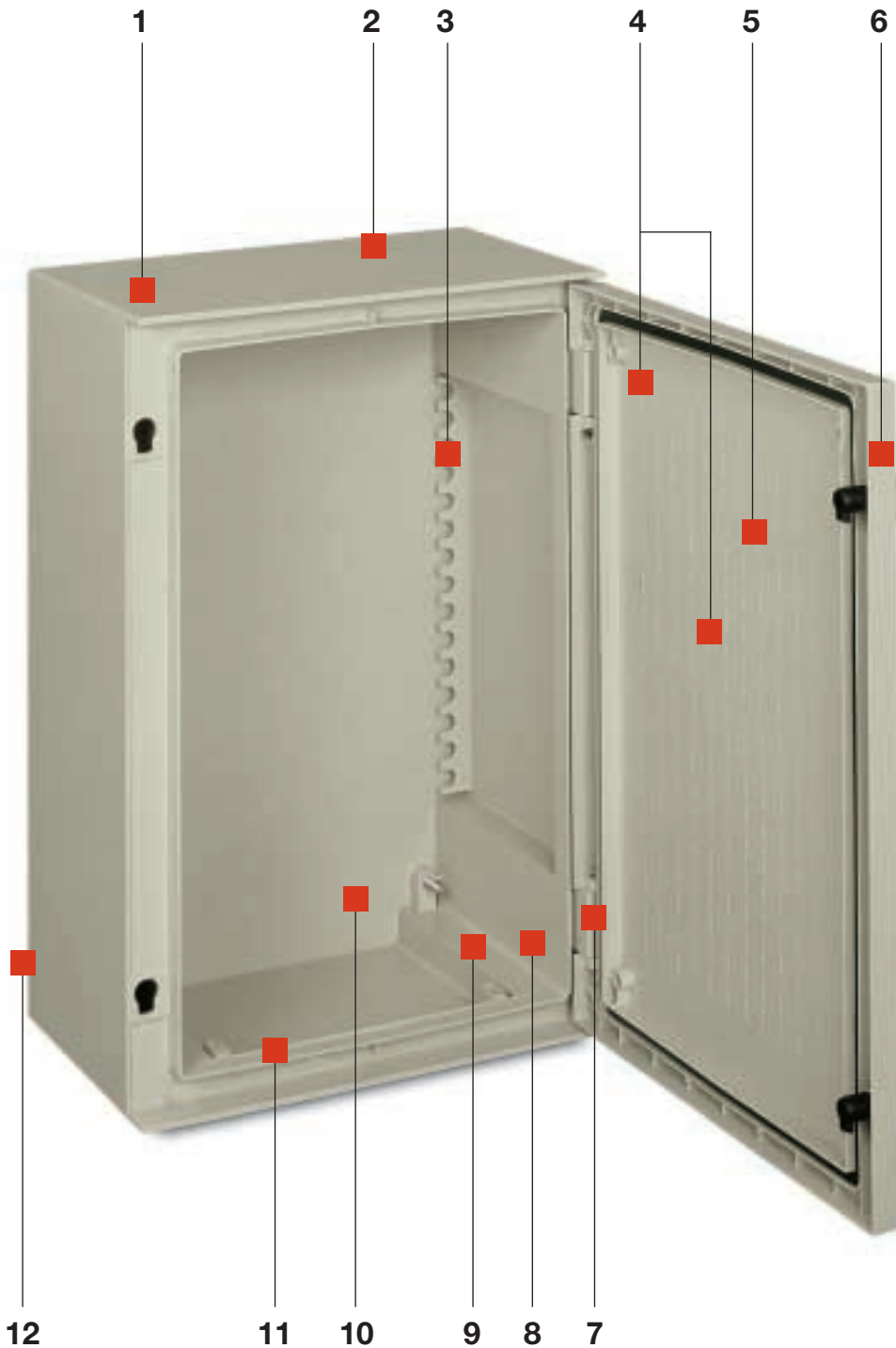# POLYMEL polyester monobloc enclosures

1 The built-in canopy protects the door and the sealing gasket.

5 Enclosure with a tempered glass transparent door, maintaining the IP66 and IK08 (5J) degrees of protection.

9 Depth adjustable mounting plate supports with positions every 12.5 mm.

2 Wall fixing from the outside with stainless steel or polyester wall brackets.

3 The fixing strips, notched every 25 mm, located at the back of the enclosure allow direct attachment of mounting rails or other devices, thus reducing assembly time.

4 Four moulded bosses on the inside of the door help to assemble accessories.
For maximum usable space, the door has a grid pattern for centring components. Door opening more than 180°.

6 The lock system is located outside the sealed area to maintain the IP66 degree of protection.

7 Interior hinges fixed into the door. The built-in polyurethane sealing gasket guarantees IP66.

8 Ventilation louvers provide natural ventilation of the interior of enclosure, thus preventing condensation.

10 Direct wall fixing with a plug to maintain the double insulation and watertightness.
4 inserts at the back for fixing the mounting plate.

11 Reversible polyester internal door with grid pattern for industrial control.

12 Self-ventilation windows at the rear of the enclosure.

PLM-75

PLM-75/CME

Hot-press moulded fibreglass-reinforced polyester enclosure, in grey RAL-7032.

Construction specifications

■ Body of one single piece: monobloc.

■ Fully reversible.

■ Intended for use in both indoor and outdoor environments.

■ A wide range of accessories enabling use in distribution, control and measurement panels for industrial and infrastructure facilities.

■ Standard double bar lock or three-point lock with handle (without insert).

Technical specifications

■ Conforms to general rules for empty enclosures established in IEC and EN 62208.

■ IP66 conforming to IEC 60529 (EN 60529).

■ High resistance to mechanical impacts IK10 (20 J) conforming to IEC and EN 62262.

■ Self-extinguishing, conforming to IEC 60695-2-1 (960°).

■ Extreme operating temperatures from -50 to +150 ºC.

■ Suitable for double insulation profiles conforming to IEC 60439-1 (EN 60439-1).

■ Resistant to corrosion.

TABLE OF MODELS, DIMENSIONS AND REFERENCES

External dimensions (mm)			Plain door	Transparent door	No. of locks	Plain door	Transparent door	Plain door	Mounting plates				Adjustable plate support	Modular chassis	Internal door
Height (A)	Width (B)	Depth (C)	Standard double bar lock			Three-point lock with handle (without insert)		With insulating mounting plate	Metal	Insu-lating	Microper-forated	Universal			
310	215	160	PLM-32*	PLM-32/KT*	1	-	-	PLM-32MB	●	●	●	●	-	-	-
308	255	160	PLM-3025	PLM-3025/KT	2	-	-	PLM-3025MB	●	●	●	●	-	●	●
430	330	200	PLM-43	PLM-43/KT	2	PLM-43/CME	PLM-43 KT/CME	PLM-43MB	●	●	●	●	●	●	●
530	430	200	PLM-54	PLM-54/KT	2	PLM-54/CME	PLM-54 KT/CME	PLM-54MB	●	●	●	●	●	●	●
647	436	250	PLM-64	PLM-64/KT	2	PLM-64/CME	PLM-64 KT/CME	PLM-64MB	●	●	●	●	●	●	●
747	536	300	PLM-75	PLM-75/KT	2	PLM-75/CME	PLM-75 KT/CME	PLM-75MB	●	●	●	●	●	●	●
847	636	300	PLM-86	PLM-86/KT	2	PLM-86/CME	PLM-86 KT/CME	PLM-86MB	●	●	●	●	●	●	●
1056	852	350	PLM-108(1)	PLM-108KT(1)	1	-	-	PLM-108MB	●	●	●	●	●	●	●

* **PLM-32** model in polycarbonate.

(1) Four-point locking system.

PLM-..ENCLOSURE DIMENSIONS (EXCEPT PLM-3025)

| Reference **PLM-...**							
	32	**43**	**54**	**64**	**75**	**86**	**108**
A	310	430	530	647	747	847	1056
B	215	330	430	436	536	636	852
C	160	200	200	250	300	300	350
D	310	280	380	480	580	680	864
E	215	200	300	300	400	500	694
F	270	380	480	580	680	780	980
G	170	260	360	360	460	560	760
H	225	325	425	525	625	725	925
I	125	225	325	325	425	525	725
J	275	375	475	575	675	775	975
K	75	150	250	250	350	450	650
L	8	13	13	13	15	15	15
M	144	181	181	228	278	278	327
N	2.3	2.7	2.9	2.9	3	3	4
P	132	179	279	279	379	479	684
Q	129	168	168	212	261	261	304
R	186	247	347	388	487	587	776

Dimensions (mm)

PLM-32...108
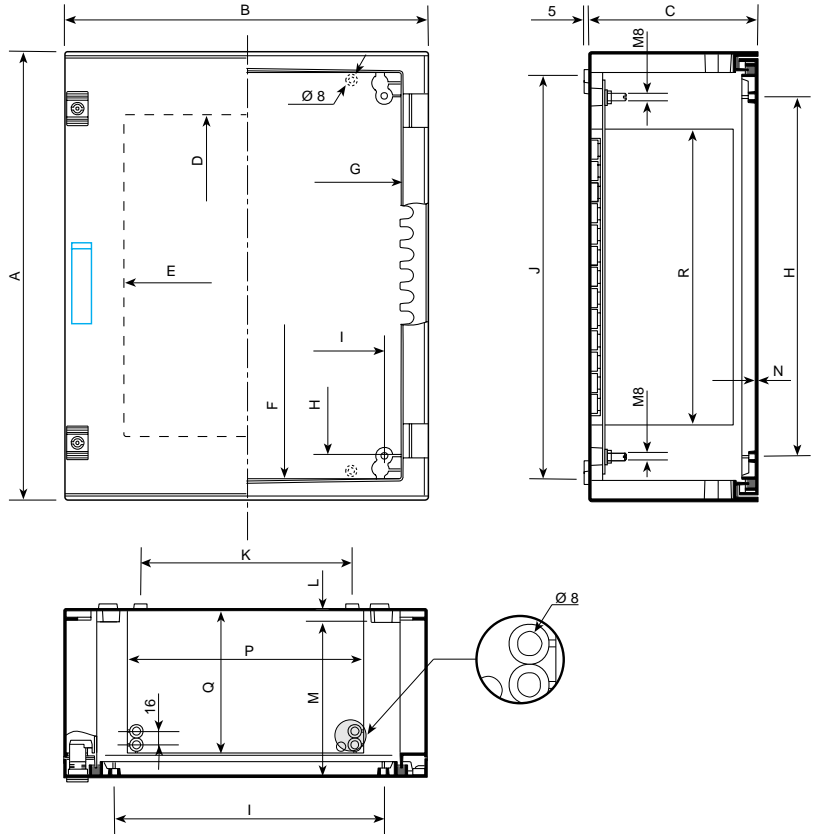
PLM-3025
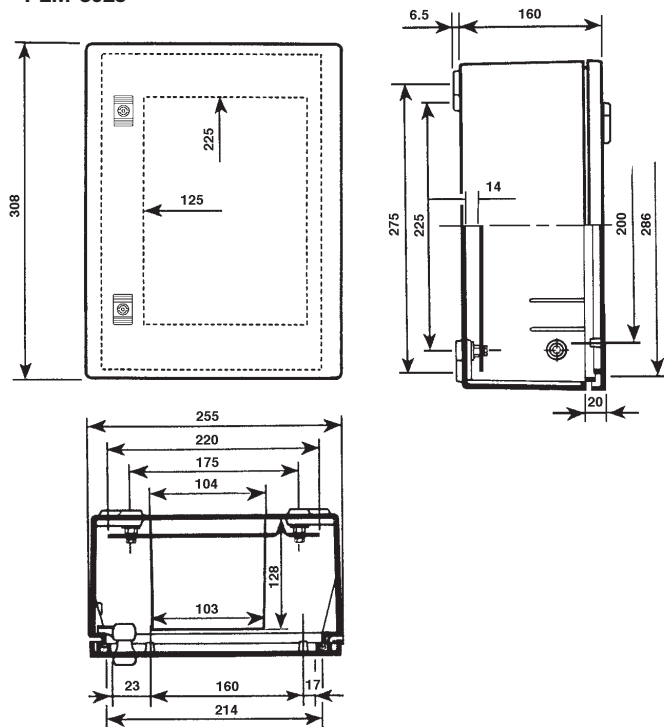
Enclosure fastening ties

For the lateral or vertical coupling of two enclosures.

■ Made of fibreglass-reinforced self-extinguishing polyester.

■ Sealing gasket built in, which guarantees the IP66 degree of protection.

■ Mounting with screws (included in the standard supply).

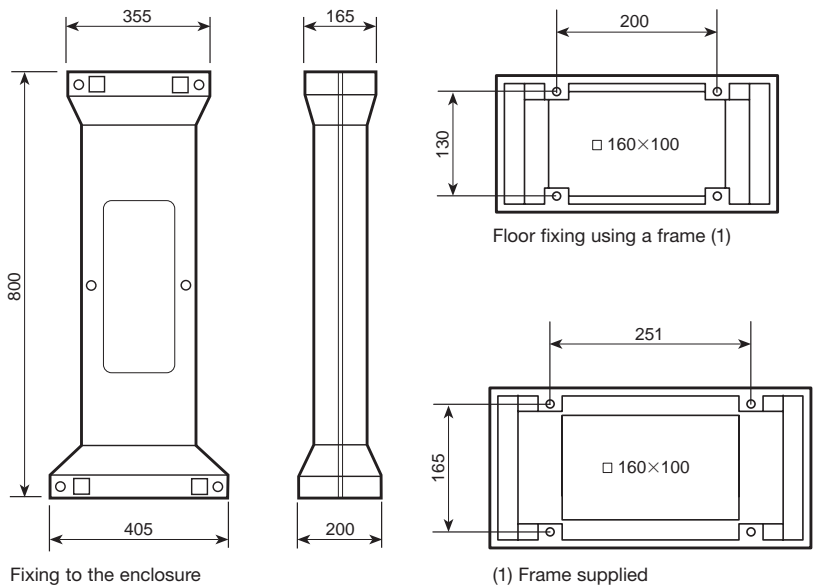| For attachment to enclosures	Type of coupling	Reference
PLM-75 y 86	lateral	**BU/PLM**
PLM-108	lateral	**BU-108/PLM**

185

148   398/635
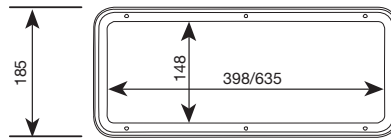
Floor-mounting pillar

For the protection of cabling of outdoor installations, distribution panels for campgrounds, leisure harbours, etc. at which it is necessary to maintain a distance between the installation and the floor. Manufactured with fibreglass-reinforced polyester.

■ Steel frame for fixing to the floor.

■ Easy installation.

■ High impact resistance.

For attachment to enclosures	Reference
PLM-54	**SFS/PLM**
PLM-64	

355   165   200

130   □ 160×100

Floor fixing using a frame (1)

800

251

165   □ 160×100
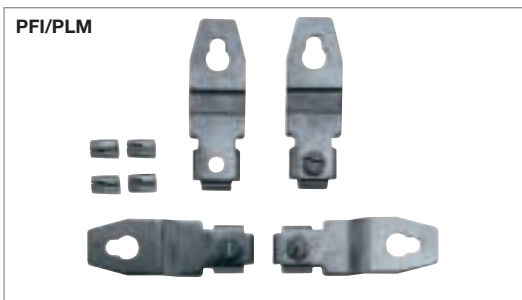
405   200

Fixing to the enclosure

(1) Frame supplied

Cable entry plate

Plain polyester cable entry plates, with sealing gasket and fastening hardware.

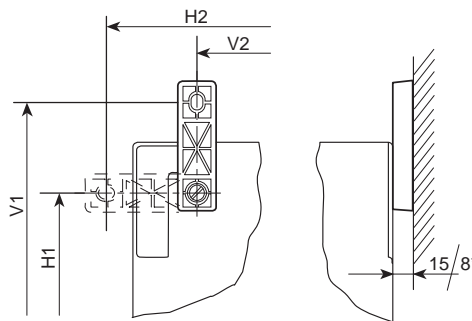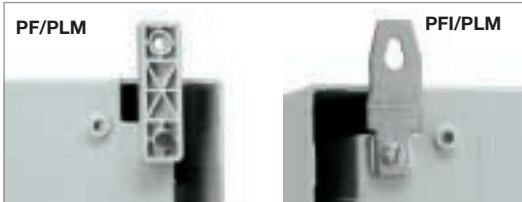| For attachment to enclosures	Reference
PLM-75/86/108	**TLA-4420**
PLM-108	**TLA-6420**

Wall fixing

PFI/PLM

Wall fixing can be done directly by drilling the back of the enclosure or with the **PF/PLM** polyester brackets or **PFI/PLM** stainless steel brackets. The brackets are mounted from the exterior to the back of the enclosure, using inserts and M8 screws (included in the standard supply).

Model **PLM-32** is mounted using self-tapping screws.

The fixing pieces can be positioned vertically or horizontally.

The set is not included in the standard supply of the enclosure.

PF/PLM   **PFI/PLM**

* For PLM-32 model
and PFI/PLM

For attachment to enclosures	Reference		Fixing centres (mm)			
			Horizontal position		Vertical position	
	Insulated	Stainless steel	Height (H1)	Width (H2)	Height (V1)	Width (V2)
PLM-32	**PF/PLM-32**	-	247	239	334	152
PLM-3025	**PF/PLM**	-	275	355	410	220
PLM-43	**PF/PLM**	**PFI/PLM**	355	360	490	225
PLM-54	**PF/PLM**	**PFI/PLM**	455	460	590	325
PLM-64	**PF/PLM**	**PFI/PLM**	555	465	690	330
PLM-75	**PF/PLM**	**PFI/PLM**	655	565	790	430
PLM-86	**PF/PLM**	**PFI/PLM**	755	665	890	530
PLM-108	**PF/PLM**	**PFI/PLM**	955	885	1090	750

Post fixing set

Allows the enclosure to be fixed to concrete, wood or aluminium posts up to diameters of 675 mm.

■ For exterior installations, provisional works or fairs, public lighting panels, etc.

■ Galvanised steel fixing loop and profiles.

■ Profiles attach to the back of the enclosure using M8 screws in the inserts (included in the standard supply).

■ Recommended maximum weight of the installation: 100 kg.

| For attachment to enclosures	Reference
PLM-43	**SFP-300**
PLM-54 and PLM-64	**SFP-400**
PLM-75	**SFP-500**
PLM-86	**SFP-600**
PLM-108	**SFP-800**

Internal doors

Internal door set in fibre-glass reinforced polyester, except model **PI-3025/PLM**, made of sheet steel finished with polyester-epoxy RAL-7032 paint.

Insulating door specifications:

■ Self-extinguishing.

■ Grid pattern on the inside of the door for alignment of equipment.

■ Quick locking through 1/4 turn sealable screws.

■ Door opens in both directions.
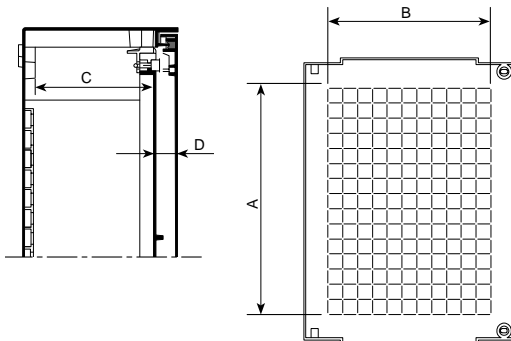
Reference	A	B	C	D
PI-3025/PLM*	248	165	62	76
PIP-43	315	205	152	26
PIP-54	415	305	152	26
PIP-64	515	305	194	32
PIP-75	615	405	244	32
PIP-86	715	505	244	32
PIP-108	850	650	269	37

* Plain internal door, dimensions A and B corresponding to the usable surface of the door.

Spare doors

Doors to be changed or repositioned on PLM enclosures.

■ Made of fibreglass-reinforced self-extinguishing polyester in grey RAL-7032.

■ For maximum usable surface, the plain door has a grid pattern for centring components.

■ Door opening to > 180°.

For attachment to enclosures	Type of door	
	Plain	Transparent
PLM-3025	**PUPLM-3025**	**KTPLM-3025**
PLM-43	**PUPLM-43**	**KTPLM-43**
PLM-54	**PUPLM-54**	**KTPLM-54**
PLM-64	**PUPLM-64**	**KTPLM-64**
PLM-75	**PUPLM-75**	**KTPLM-75**
PLM-86	**PUPLM-86**	**KTPLM-86**
PLM-108	**PUPLM-108**	**KTPLM-108**

Locks for polyester enclosures

Locks up to PLM-86

Standard double bar lock, with zinc-alloy inserts, operation with **LDB 5** or **DBP** wing key (conforming to DIN 43668).

Reference: **CDB/PLM**.

| TRANSFORMING INSERT OF STANDARD LOCK INTO STANDARDISED VERSIONS		
Specifications	Type of key operation 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**
Triangle lock with Δ 6.5 mm side	**LT-8**	**TT7/CRN**
Triangle lock with Δ 8 mm side	**LT-8**	**TT8/CRN**
Handle lock with 405 key		**TL/PLM**
Handle lock with key 220		**TL220/PM**
Stainless steel padlocking device (up to **PLM 86**)		**KPLM**
Fixed wing lock		**CDB/PLM**
Double bar wing		**DBP**

PLM... CME locks

Standard handle locks without insert in models **PLM**… **CME**.

LOCKS (INSERTS) FOR PLM...CME ENCLOSURES

Specifications	Type of key operation ref.	Reference
Double bar lock	**LDB 5**	**TDB/PLD**
Triangle lock with Δ 8 mm side	**LT-8**	**TT7/PLD**
Lock with key type 405		**TCL/PLD**
Key-operated Lock Reinforced type		**TLR/PLD**
Key-operated Lock		**TJIS/PLD**
Padlock lock		**BCME/PL**
Manual lock		**TEM/PLD**

Four-point locks for PLM-108

Standard double-bar lock for model **PLM-108** in its plain door and **KT** transparent door versions. Operation with **LDB 5** key or **DBP** wing key (conforming to DIN 43668).

TRANSFORMATION FROM FOUR-POINT LOCK TO DIFFERENT TYPES OF LOCKS OR FOR ENCLOSURES

Specifications	Type of key operation ref.	Reference
□ 6 mm square lock	**LC-7**	**TC 6/PL**
□ 7 mm square lock	**LC-7**	**TC 7/PL**
□ 8 mm square lock	**LC-8**	**TC 8/PL**
Triangle lock with Δ 7 mm side	**LT-8**	**TT 7/PL**
Triangle lock with Δ 8 mm side	**LT-8**	**TT 8/PL**
Padlocking device		**BC/PL**

STANDARD TRANSFORMATION FOR PLM-108 ENCLOSURE RETRACTABLE HANDLE LOCK WITH DIFFERENT TYPES

Specifications	Type of key operation ref.	Reference
Double bar lock	**LDB 5**	**TEDB/PL**
□ 6 mm square lock	**LC-7**	**TEC 6/PL**
□ 7 mm square lock	**LC-7**	**TEC 7/PL**
□ 8 mm square lock	**LC-8**	**TEC 8/PL**
Triangle lock with Δ 7 mm side	**LT-8**	**TET 7/PL**
Triangle lock with Δ 8 mm side	**LT-8**	**TET 8/PL**
Lock with key type 405		**TEL/PL**
Key-operated Lock Reinforced type		**TER/PL**
Lock with JIS key		**TEL-JIS/PL**
Lock with FAC key		**TEL-FAC/PL**
Manual lock		**TEM/PL**
Handle without lock		**TE/PL**
Padlocking device		**BCME/PL**
Handle for **PLM-108**		**TEM/PL**

Mounting plates

Metal

Microperforated

Universal perforated

Bakelite

Polyester

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

■ Metal plates of galvanised sheet steel.

■ Microperforated plates made of galvanised sheet steel with 3.6 mm ∅ holes, 12.5 mm apart.

■ Universal perforated plates for fast fixing of equipment, made of zinc steel.
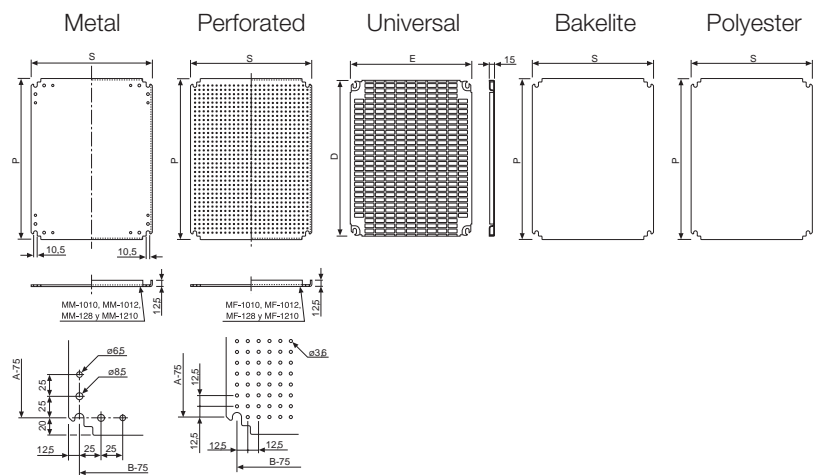
■ Insulating bakelite or polyester plates.

Metal   Perforated   Universal   Bakelite   Polyester

| For attachment to enclosures				Metal			Insulated						Perforated			Universal		
							Bakelite			Polyester								
Height (A)	Width (B)	P	S	Reference	Thickness (mm)	Weight (kg)	Reference	Thickness (mm)	Weight (kg)	Reference	Thickness (mm)	Weight (kg)	Reference	Thickness (mm)	Weight (kg)	Reference	D	E
310	215	265	150	**MM-32**	2	0.6	**MB-32**	4	0.2	**MP-32**	4	0.3	**MF-32**	2	0.3	**MR-32**	255	154
308	255	265	200	**MM-3025**	2	0.6	**MB-3025**	4	0.3	**MP-3025**	4	0.4	**MF-3025**	2	0.5	**MR-3025**	253	228
430	330	365	250	**MM-43**	2	1.6	**MB-43**	4	0.5	**MP-43**	4	0.7	**MF-43**	2	1.5	**MR-43**	348	251
530	430	465	350	**MM-54**	2	2.5	**MB-54**	4	0.9	**MP-54**	4	1.2	**MF-54**	2	2.4	**MR-54**	450	351
647	435	565	350	**MM-64**	2	3.1	**MB-64**	4	1.1	**MP-64**	4	1.4	**MF-64**	2	3	**MR-64**	555	351
747	536	665	450	**MM-75**	2	4.6	**MB-75**	4	1.7	**MP-75**	4	2.1	**MF-75**	2	4.3	**MR-75**	645	451
847	636	765	550	**MM-86**	2.5	9.9	**MB-86**	4	2.3	**MP-86**	5	3.8	**MF-86**	2.5	9	**MR-86**	750	551
1056	812	965	750	**MM-108**	2.5	16.9	**MB-108**	5	5.7	**MP-108**	5	6.5	**MF-108**	2.5	16	**MR-108**	945	751

Adjustable plate support

Supports designed to fit 200, 250, 300 and 350 mm deep enclosures.

With positioning notches along its entire length for depth adjustment of the mounting plate every 12.5 mm.

■ Made of galvanised sheet steel.
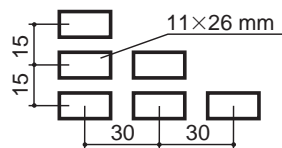
■ Quick fixing to the enclosure.

For attachment to enclosures	Reference	A	B
PLM-43 and 54	**DPLM-200**	156	94
PLM-64	**DPLM-250**	200	100
PLM-75 and 86	**DPLM-300N**	250	100
PLM-108	**DPLM-350**	306	106
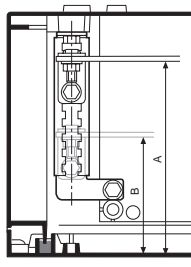
Fixing accessories for universal plates
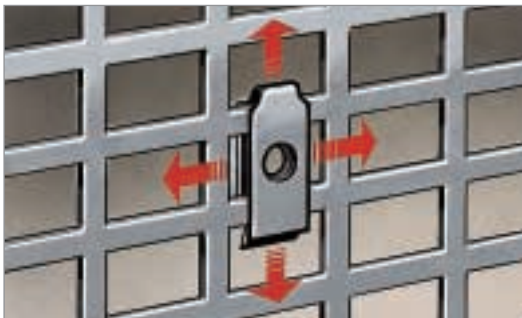
Thread type	Fixing nut		Fixing screw with washer		
		Packaging		Length (mm)	Packaging
M3	**TFP 3**	100	**-**	-	-
M4	**TFP 4**	100	**TOR 10/4 A**	10	100
			TOR 16/4 A	16	100
M5	**TFP 5**	100	**TOR 12/5 A**	12	100
			TOR 18/5 A	18	100
M6	**TFP 6**	100	**TOR 12/6 A**	12	100
			TOR 18/6 A	18	100

11×26 mm

15 15

30 30

Rail fixing set
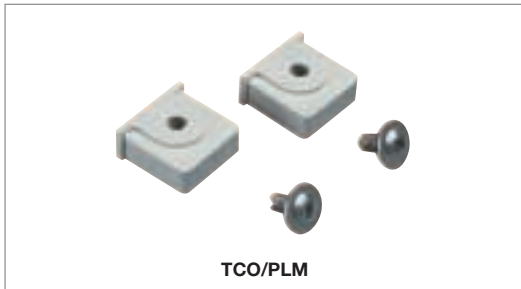
TCO/PLM

■ Insulating support and self-tapping screw for quick fixing of L brackets and 35 mm symmetrical rails (Ref. **TCO/PLM**).

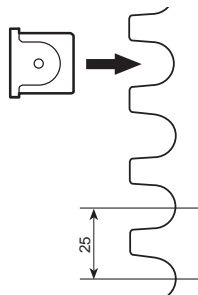■ Insulating support and M6 inserted bolt for quick fixing of L brackets and 35 mm symmetrical rails (Ref. **TCO-M6/PLM**).

Reference	Type of screw
TCO/PLM	Self-tapping
TCO-M6/PLM	M6

35 mm symmetrical rail

35 mm symmetrical rails to support equipment, specially adapted to the width of the enclosures.

Fixing at the back of the enclosure using the **TCO/PLM** set.

For attachment to enclosures	Reference	Width
PLM-32	**CO-200/PLM**	180
PLM-43	**CO-300/PLM**	280
PLM-54 and 64	**CO-400/PLM**	380
PLM-75	**CO-500/PLM**	480
PLM-86	**CO-600/PLM**	580
PLM-108	**CO-800/PLM**	795

GCR ties

Clip in fasteners to be installed directly on 19" racks and on slotted **MR** mounting plates.

Reference: **GCR**.

Adjustable ties

Made of 6.6 nylon in natural colour or black for outdoor conditions.

Reference		L	M	Use	
White	Black			∅ minimum	∅ maximum
LZ25100	**LN25100**	100	2.5	1.6	22
LZ25200	**LN25200**	200	2.5	1.6	49
LZ35150	**LN35150**	150	3.5	1.6	35
LZ35200	**LN35200**	200	3.5	1.6	49
LZ35300	**LN35300**	300	3.5	1.6	75
LZ46150	**LN46150**	150	4.6	1.6	36
LZ46200	**LN46200**	200	4.6	1.6	49
LZ48270	**LN48270**	270	4.8	1.6	73
LZ46390	**LN46390**	390	4.6	1.6	109
LZ76390	**LN76390**	390	7.6	4.7	108
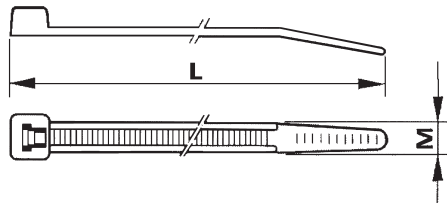
Tightening tools

To tighten and cut to size the adjustable ties. They facilitate wiring and save time, preventing the packets of cables from loosening.

Tool adjustable according to the thickness of the tie. Can be used with the following models: LZ25100 up to LZ46390. Ref.: **MARK3**.

A very light and ergonomic tool, the cut on the tie is done by twisting the tool. Can be used on the following models of ties: LZ25100 up to LZ46390. Ref.: **MARK20, 21**.

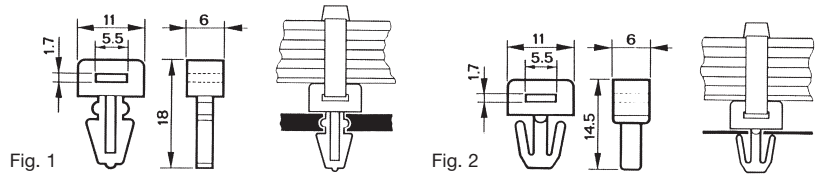| Reference	Admissible width ties
MARK3	2.5 ÷ 4.8

Reference	Admissible width ties
MARK20	2.5 ÷ 4.8
MARK21	4.6 ÷ 7.6

Locking clips

SFC2   SFC1

Allows fixing ties from the series **LZ25100** up to **LZ46390** on panels up to 3.2 mm thick. Material: 6.6 nylon.

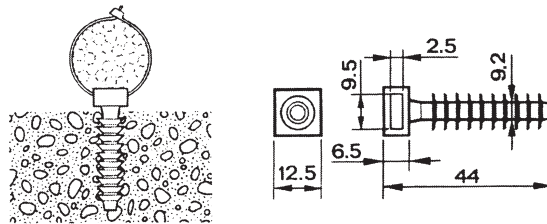| Reference	∅ Perforation mm	Max. panel thickness mm	Figure
SFC1	6	3.2	1
SFC2	6	1	2

Fig. 1   Fig. 2

Stud

To use with soft materials: 7 mm ∅ hole, or hard materials: 8 mm ∅ hole. Ties are attached up to 9 mm width. Material: black 6.6 nylon.
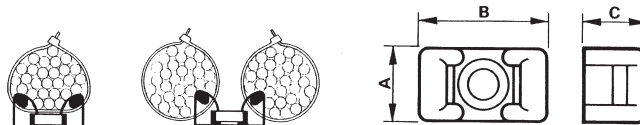
Ref.: **LOK01**.

Tie fixing support

To attach one or two ties, mounted with a single screw. Material: 6.6 nylon. Allows for attaching ties from the entire range.

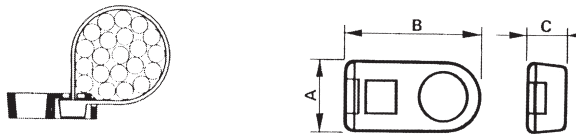| Reference	A	B	C	Fixing screw	Admissible width ties
KR6	12	18	9	M4	2.5 ÷ 4.8
KR8	14.5	25	12	M6	2.5 ÷ 7.6

Support heads

To transform normal ties into ties with fixing heads, introduce a tie into this head before closing it on the cable bundle. Material: 6.6 nylon.

Reference	A	B	C	Fixing screw	Admissible width ties
FH18	7.1	13.3	4	M4	2.5
FH30	9.5	17.9	4.7	M5	3.5
FH50	11.3	22.2	6.2	M6	4.7

Self-adhesive support base

Permits insertion of 1 tie from 4 points at a 90º angle. Attaches ties from the series **LZ25100** up to **LZ46390**. Material: 6.6 nylon.

Reference	A	B	C	D	E	Admissible width ties
MB3A	19.1	19.1	4.8	3.2	13.2	2.5 ÷ 3.5
MB4A	28.5	28.5	5.5	4	20.2	2.5 ÷ 4.8

adhesive support
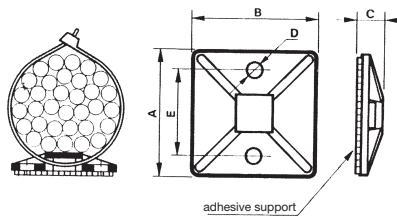
Tie fixing support

To attach ties from any series. Material: 6.6 nylon.

Reference	Admissible width ties mm	Fixing screw
LKC	2.5 ÷ 7.6	M5

Lateral tie fixing support

Covers the head of the tie in its end, thus obtaining neater cabling.
Material: 6.6 nylon.
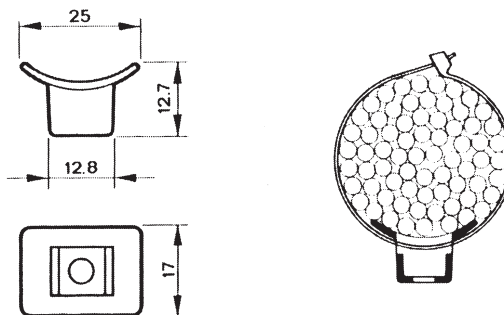
Reference	Admissible width ties mm	Fixing screw
LKM/HE	2.5 ÷ 7.6	M5
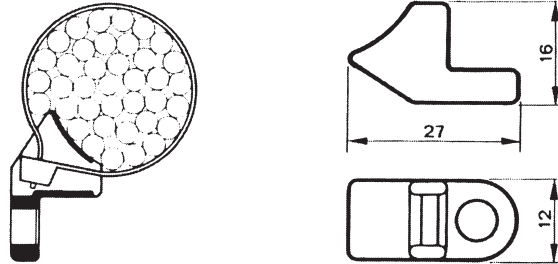
Fixing loop for tubes, hoses, etc.

2 versions, fixed and graduated, Ø from 5 to 25.4 mm. Material: black 6.6 nylon.

Reference	Ø A min. - max.	B	C	D	E
NX1	5	3.5	1	6.2	13.7
NX3	8	3.9	1	9.4	20.5
NX5	12	3.9	1	9.4	24
NX8*	14.3 ÷ 15.8	4	1.3	12.6	32
NX11	17.4 ÷ 20	4	1.3	12.6	37
NX14	22.2 ÷ 25.4	4.3	1.5	16	45

*The **NX8** model only has 3 adjustment holes.

NX 1-3-5

NX 8-11-14
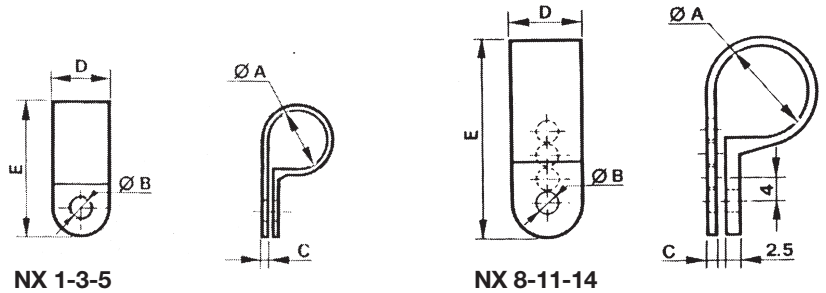
Adjustable membrane glands

Insulating membrane glands made of PVC with entry that can be adjusted for cables.
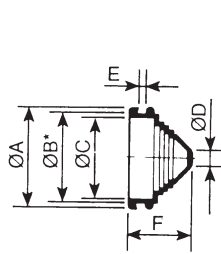
Fig. 1
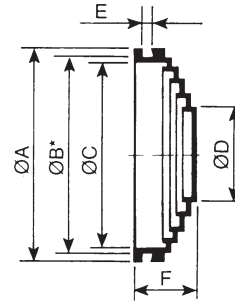
Fig. 2

Reference	Fig.	Ø A	Ø B*	Ø C	Ø D	E	F	Capacity	
								Ø cable	Tube
ECPC-3	1	25	21.5	18	5	3.2	13	5 to 18	Pg 9 to 11
ECPC-5	1	33	29.5	26	5	3.2	20	5 to 26	Pg 9 to 16
ECPC-6	1	43	38.5	36	5	3.2	22	5 to 36	Pg 9 to 21
ECPC-9	2	70	63	60	28	3	20	28 to 60	Pg 21 to 48
ECPC-15	2	98	90	87	28	3	23	28 to 87	Pg 21 to 48

* Mounting perforation.

Protective sleeves

Small protective sleeves for cables coming out of tubes, as indicated in the instructions for MI BT 019. Made of flexible and durable PVC, in light grey colour.

Reference	A	Ø B	Tube
PC-1	15.2	12.7	Pg 9
PC-2	18.6	16	Pg 11
PC-3	20.4	17.8	Pg 13.5
PC-4	22.5	19.8	Pg 16
PC-5	28.3	25.3	Pg 21
PC-6	37	33.6	Pg 29
PC-7	47	43	Pg 36
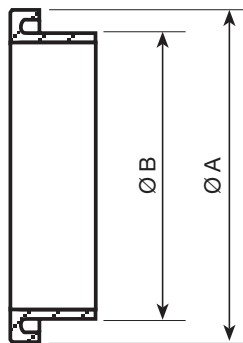
Useful information about Pg tubes and HIMEL accessories to be coupled

MODELS, DIMENSIONS AND REFERENCES

| | Tubes | | | | | | | | | Ø perforations to | | HIMEL accessories to be coupled | | | |
| | | | Ø interior | | | Cables inserted* (No. of conductors) | | | | | | To the tubes | | To the perforations | |
Desig-nation	Ø exterior	Steel	Flexible steel	PVC	Flexible steel with PVC	1	2	3	4	Insert	Thread	Adjustable membrane glands	Protective sleeves	Adjustable membrane glands	Plain plugs
						4						EC-1 to EC-7			
Pg 9	15.2	12.7	12.4	12	11.1	6	2.5	-	-	16	14	ECPC-3 to ECPC-6	PC-1	-	-
												ECN-5 to ECN-10			
					10	4	2.5					EC-2 to EC-7		EC-1	
Pg 11	18.6	16	15.5	14.5	14.2	16	6	4	2.5	19	17.5	ECPC-5; ECPC-6	PC-2	EC-2	TC-1
						25						ECN-5 to ECN-10		ECN-1	
												EC-3 to EC-7		EC-3	
Pg 13.5	20.4	17.8	17.5	16.3	16	35	10	6	4	21	19.5	ECPC-5; ECPC-6	PC-3	ECPC-3	TC-2
												ECN-5 to ECN-10			
												EC-4 to EC-7		EC-4	
Pg 16	22.5	19.8	18.7	18.5	17.6	50	16	10	6	23	21.5	ECPC-5; ECPC-6	PC-4		TC-3
												ECN-5 to ECN-10			
												EC-5 to EC-7		EC-5	
Pg 21	28.3	25.3	24.7	23	23	70	25	16	10	29	27	ECPC-6 to ECPC-15	PC-5	ECPC-5	TC-4
												ECN-6 to ECN-10		ECN-5	
						95	35	25	16			EC-6; EC-7		EC-6	TC-5
Pg 29	37	33.6	33.5	31	31	120	50	35	25	38	35.5	ECPC-9; ECPC-15	PC-6	ECPC-6	TCP-5
						150						ECN-7; ECN-10		ECN-6	
						185			35			EC-7		EC-7	
Pg 36	47	43	41.5	41	40.3	240	70	50	50	48	45.5	ECPC-9; ECPC-15	PC-7	ECN-7	TC-6
						300						ECN-10			
							95	70				ECPC-9; ECPC-15			
Pg 42	54	50	48	48	47	-	120	95	70	55	52.5	ECN-10	-	-	-
							120	95				ECPC-9; ECPC-15			
Pg 48	60	56	54.2	52.5	51.4	-	150	150	120	61	58	ECN-10	-	-	-

* Number and section in mm² of the conductors that may be housed inside each tube (orientative).

For more information, consult the electrotechnical rules for low voltage (MI BT 019).

Sigma safety terminals
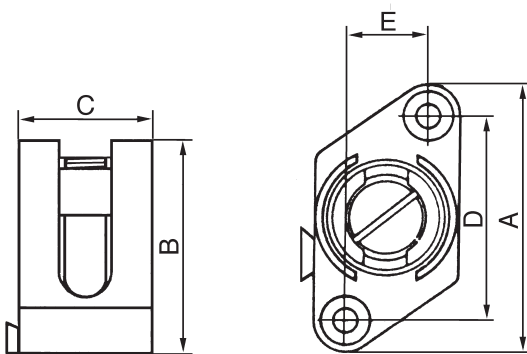
Base of safety terminals made of black matte self-extinguishing polyamide-6; terminal of brass **MS-58**.

(DIN17660); ring of tempered steel zinc dichromate; cap made of orange self-extinguishing polypropylene.

■ Anti-cut. The connection is made using a tightening mechanism that spreads the pressure out throughout the entire contact surface, avoiding the occasional rubs and stresses that damage the conductors.

■ Loosening proof. The ring that surrounds the brass body ensures that the pressure exerted by the conductors cannot open the terminal and loosen the connection.

■ Total insulation. All the SIGMA terminals are supplied with a terminal cap, avoiding any accidental contact with live parts.

All the calibres may be coupled one to the other, allowing the formation of strips of any length. Service voltage: 500 V.

Reference	Section m/m²	A	B	C	D	E
S.04	1 × 4	30	20	13	21	4
S.06	1 × 6	33	25	16	24	7
S.10	1 × 10	38	28	16	28	6
S.16	1 × 16	42	32	19	32	9
S.25/35	1 × 35	46	38	23	34	11
S.50	1 × 50	52	45	27	40	15
S.70	1 × 70	55	50	30	40	15
S.95/100	1 × 100	58	54	33	40	20

NOTE: each terminal accepts up to 2 conductors of the section indicated.

Bypass terminal blocks
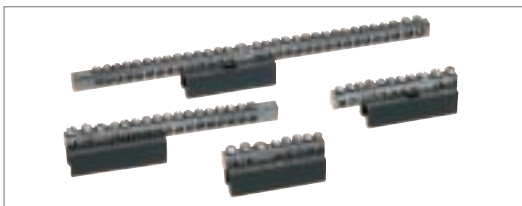
Earth and neutral bypass terminal blocks with insulated plinth.

Direct fixing by pressure on the profile supplied by the chassis itself.

Reference	Number of terminals × section in mm²
RBLZ/21656*	2×16 mm² + 5×6 mm²
RBLZ/21686	2×16 mm² + 8×6 mm²
RBLZ/216146	2×16 mm² + 14×6 mm²
RBLZ/216296	2×16 mm² + 29×6 mm²

* Included in standard supply.

Bimetal BBH terminals

BBH-29   BBH-29D

BBH-29P   BBH-29DP
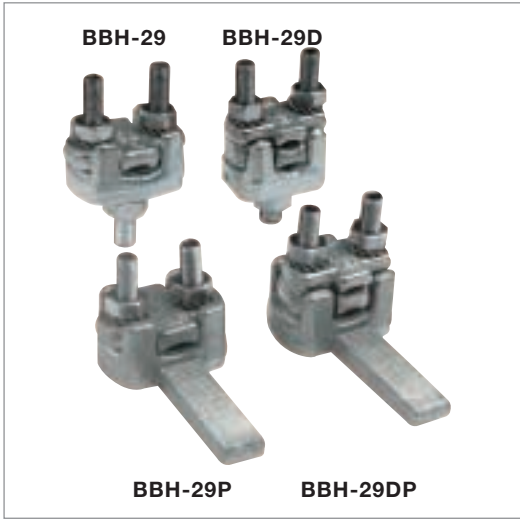
Terminals especially designed for branching cables on plates; their main application is busbar connection.

BBH terminals are made of a tinned, hot cast copper alloy and are suitable for connecting to a conductor of copper or aluminium indistinctly (bimetal).

Reference	Main section mm²	Bypass section mm²
BBH-29	6-50	-
BBH-29C*	6-50	-
BBH-30	10-95	-
BBH-31	16-150	-
BBH-32	50-240	-
BBH-29D	6-50	6-50
BBH-29DC*	6-50	6-50
BBH-30D	10-95	10-95
BBH-31D	25-150	16-150
BBH-32D	95-240	5-240

Reference	Main section mm²	Bypass section mm²
BBH-29P	6-50	-
BBH-29PC*	6-50	-
BBH-29DP	6-50	6-50
BBH-29DPC*	6-50	6-50

* Include terminal cover **CBBH-29**.

Plate/cable terminals

1   2
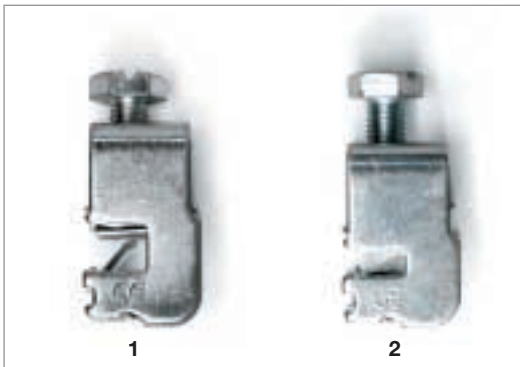
Plate entry and bypass by cable.

Reference	Cable bypass section (mm²)	Plate thickness (mm)	Figure
BPCH 516	1.5 to 16	5	2
BPCH 550	1.5 to 50	5	2
BPCH 5120	16 to 120	5	2
BPCH 1016	1.5 to 16	10	1
BPCH 1050	1.5 to 50	10	1
BPCH 10120	16 to 120	10	1

Compact lamp
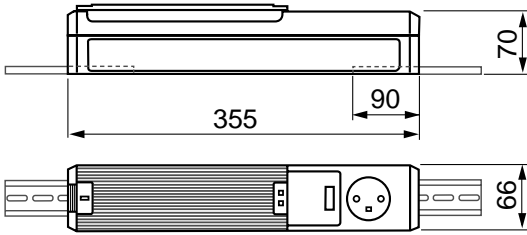
Compact fluorescent lamps, designed especially for use in electronic enclosures. May be fixed with a magnet.

■ Connection voltage 220 V/50 Hz.

■ Consumption 11 W.

■ Connection/disconnection switch.

■ 200 V/16 A socket with earthing.

■ Maximum ambient temperature 60 ℃.

■ Lighting output = 75 W bulb.

| Specifications	Reference	Plug	Tension
Lamp fixed with a magnet or on 35 mm symmetric DIN rail.	**LAM-75**	220 V/16 A	220 V/50 Hz
Lamp fixed on a 35 mm symmetric DIN rail.	**LAC-75**	220 V/16 A	220 V/50 Hz
Lamp fixed with a magnet or on 35 mm symmetric DIN rail.	**LAM-75/120**	120 V/15 A	120 V/60 Hz
Lamp fixed on a 35 mm symmetric DIN rail.	**LAC-75/120**	120 V/15 A	120 V/60 Hz

Slimline lamp

Magnetic-fixing flat lamps equipped with energy efficient light bulbs, with or without a plug.

■ Electronic ballast.

■ Power: 11 W.

■ Luminosity: 900 lm.

■ Lifespan: 10000 h.

■ Plastic casing UL94 V0.

■ IP20.

■ Class I.

Reference	Plug	Socket	Approval
LAMS75	AC 230 V/16 A	SCHUKO	VDE
LAMX75	AC 230 V/-	-	VDE
LAMU75	AC 120 V/15 A	USA	UL

Incandescent lamp

500
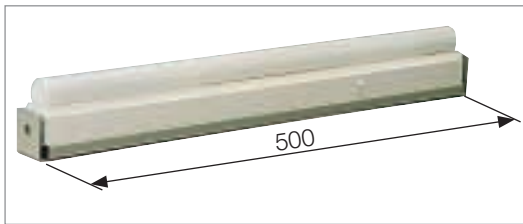
Incandescent lamp designed especially for use in electronic enclosures.

- Connection voltage 220 V/50-60 Hz.
- Consumption 60 W.
- Connection/disconnection switch.
- Terminal connection entry.

| Reference |
|---|
| **LAI/OL 68** |

Dual lamp

1

2

3

4

Light fixtures designed especially for use in electronic enclosures with various possibilities for fixing and operating.

- Energy efficient electronic lamp E27, 20 W, 220-240 V/50-60 Hz or 120 V/60 Hz.
- Lighting output = 100 W bulb.
- Fixed models connection via 2.5 mm^2 terminal strip and the mobile model via cable.
- Degree of protection IP20.
- Insulation class II.
- Conforming to EN 55014 and EN 50082-1.

Specifications	Support fixing	Figure	Reference	Tension
Motion-activated	Magnetic, using screws and/or (1) 35 DIN rail	1	**LAMDP**	220 V/56 Hz
			LAMDP 120	120 V/60 Hz
On/off switch with the possibility of connection of door switch	Magnetic, using screws and/or (1) 35 DIN rail	2	**LAMIN**	220 V/50 Hz
			LAMIN 120	120 V/60 H
Mobile lamp, connection via cable	Adhesive or screws	3	**LAMPO**	220 V/50 Hz
			LAMPO 120	120 V/60 Hz
Support for **LAMDP**, **LAMIN**, **LAMPO** lamp	Adhesive or screws	4	**SOLAM**	

(1) DIN rail not provided.

67

100

396
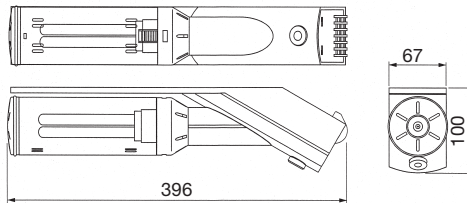
Ventilation devices

To connect the inside of the enclosure with the exterior atmosphere and prevent condensation. Can be fixed onto the outside, Ref.: **VM-25** and **VM-27** or onto the internal sides connected with the rear self-ventilating windows of the POLYMEL enclosures, Ref.: **VM-35**.

VM-25   **VM-27**

Reference	Specifications
VM-25	For coupling to the outside of all polyester enclosures
VM-27	
VM-35	For coupling to the interior of POLYMEL enclosures

VM-35

Purging device

To remove condensation water.

Mounted on the Ø 9 mm housing on the inside of the bottom of the enclosure. Degree of protection IP55.

Reference	Specifications
VEA-9	For attachment to all enclosures

Rear blanking plates

Rear blanking plates in insulating material to protect against unwanted elements entering into the self-ventilating window of the enclosure.

Not included in standard supply with the enclosure except for model 108 which has it built in.

For attachment to enclosures	Reference
PLM-32	**CE-PLM/A**
PLM-43 and 54	**CE-PLM/B**
PLM-64, 75 and 86	**CE-PLM/C**

Expandable nuts

TEX 8   TEX 6   TEX 5

Dodge-type brass nuts designed to be incorporated into the bosses of **PLM** enclosures.

Specifications	For attachment to enclosures	Reference
M5	PLM-43 and 54	**TEX 5**
M6	PLM-64 and 108	**TEX 6**
M8	For the back of the enclosure	**TEX 8**

Document pocket

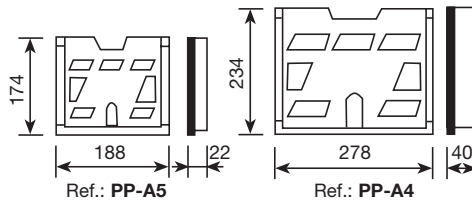**PP-A** models made of thermo-plastic in grey RAL-7035.

■ Fixed with adhesive tape or screws.

For holding A4 or A5-sized plans.

Insulated	
Plan size	Reference
A4	**PP-A4**
A5	**PP-A5**

174   188   22
Ref.: **PP-A5**

234   278   40
Ref.: **PP-A4**

Dinimel DLA distribution chassis


PLM-64/KT + DLA-48P

Distribution chassis set for modular equipment, Ref.: DLA-... with a distance between the 35 mm symmetric profile and the cover, which is adjustable as needed by the customer from 40 to 85 mm.

■ Rigid structure made of galvanised steel.

■ Insulating cover and frame in self-extinguishing material in RAL-7035. Quick mounting, without the need for screws.

■ System for identifying circuits included in the standard supply.

■ Earth and neutral bypass terminal blocks. Ref.: **RBLZ/21656** (included in standard supply).

Dimensions (mm)
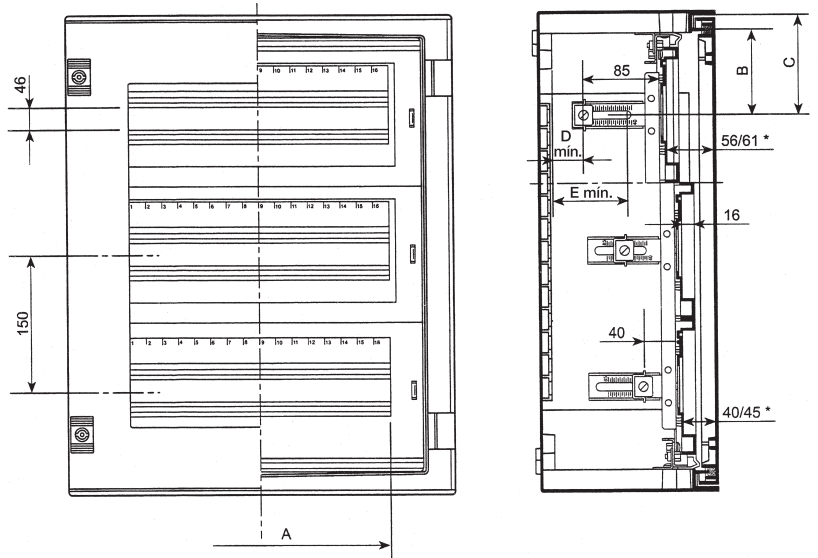
* Models **DLA-48P**, **66**, **88**, **84** and **112**.

DLA-24 **DLA-48** **DLA-48P** **DLA-66** **DLA-88**

DLA-84 **DLA-112** **DLA-240**
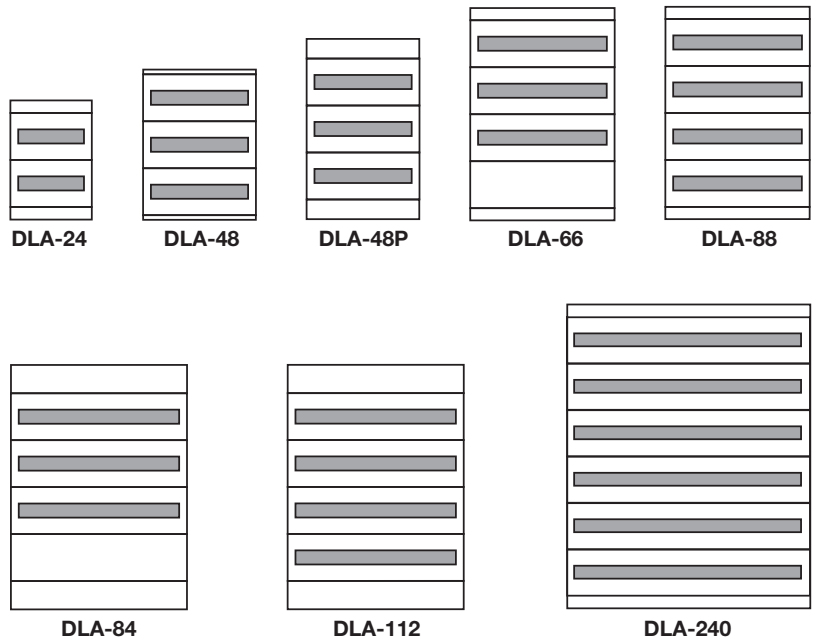
To be coupled to enclosures*		Reference	Distribution of rows				Dimensions				
Plain door	Transparent door		No. of rows	Automatic rail		No. of plates	A	B	C	D min.	E min.
				Quantity	No. of 18 mm modules						
PLM-3025	PLM-3025/KT	**DL/PLM18**	2	2	18	-	-	-	-	-	-
PLM-43	PLM-43/KT	**DLA-24**	2	2	24	-	216	115	137	38	88
PLM-54	PLM-54/KT	**DLA-48**	3	3	48	-	288	90	112	38	88
PLM-64	PLM-64/KT	**DLA-48P**	3	3	48	-	288	140	170	80	130
PLM-75	PLM-75/KT	**DLA-66**	4	3	66	1	395	115	145	129	179
PLM-75	PLM-75/KT	**DLA-88**	4	4	88	-	395	115	145	129	179
PLM-86	PLM-86/KT	**DLA-84**	4	3	84	1	504	165	195	129	179
PLM-86	PLM-86/KT	**DLA-112**	4	4	112	-	504	165	195	129	179
PLM-108	PLM-108/KT	**DLA-240**	6	6	234	-	704	115	146	170	220

* For PLM.../CME enclosures with three-point locks, factory assembly
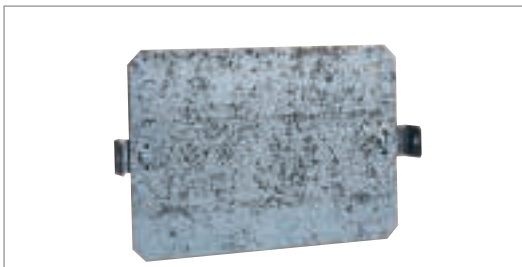
Plain Dinimel DLA cover

Insulating cover in self-extinguishing material in RAL-7035 to protect non-modular equipment. Height: 150 mm (1 row).

To be coupled to chassis	Reference	Reference
DLA-24	**CTL300/DLA**	256
DLA-48 and 48P	**CTL400/DLA**	356
DLA-66 and 88	**CTL500/DLA**	456
DLA-84 and 112	**CTL600/DLA**	555
DLA-240	**CTL800/DLA**	755

Dinimel DLA mounting plate

Mounting plate in galvanised steel for fixing non-modular equipment. Height: 150 mm (1 row).

| To be coupled to chassis	Reference	Width
DLA-24	**PMP300/DLA**	215
DLA-48 and 48P	**PMP400/DLA**	315
DLA-66 and 88	**PMP500/DLA**	415
DLA-84 and 112	**PMP600/DLA**	514
DLA-240	**PMP800/DLA**	714

Blanking plate

Blanking plate of self-extinguishing insulating material for total or partial coverage of the windows for automatic switches. Easily cut to the desired size.

| Reference	Length (mm)	No. of modules
ATP6/DTM	108	6
ATP24/DTM	432	24
ATP/UND	1100	Cut to size

Bypass terminal blocks
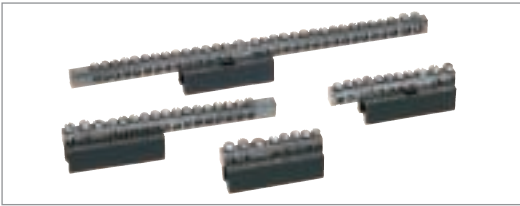
Earth and neutral bypass terminal blocks with insulating plinth.

Direct fixing by pressure on the profile supplied by the chassis itself.

Reference	Number of terminals 3 section in mm²
RBLZ/21656*	2×16 mm² + 5×6 mm²
RBLZ/21686	2×16 mm² + 8×6 mm²
RBLZ/216146	2×16 mm² + 14×6 mm²
RBLZ/216296	2×16 mm² + 29×6 mm²

* Included in standard supply.

Distribution bars
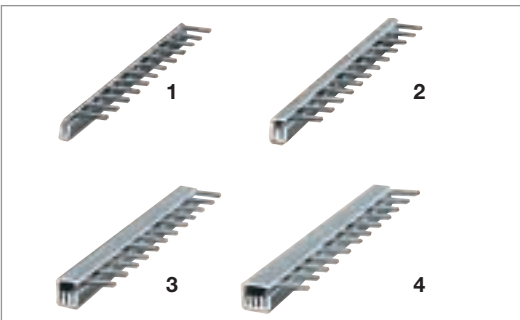
For the distribution in a single row of automatic switches with a total of 12 modules.

No. of bars	No. of poles per bar	Reference	Figure No.
1	12	**BDS 1/12**	1
2	6	**BDS 2/6**	2
3	4	**BDS 3/4**	3
4	3	**BDS 4/3**	4

POLYMEL enclosures in exterior industrial installations

Due to the quality of the plastic materials and their constructive characteristics, POLYMEL enclosures are suitable for panels in installations subjected to contact with chemical agents and harsh environments, usually, for example, in the petrochemical, cement making, etc. industries.

POLYMEL enclosures in interior industrial installations

Their high degree of protection (IP66) and their high resistance to impacts and temperature make POLYMEL enclosures particularly ideal for industrial installations subjected to processes with frequent water projection, such as the paper-making and agri-food industries or automobile washes.

POLYMEL enclosures in leisure facilities

Their resistance to corrosion and UV rays permits POLYMEL enclosures to be adapted to panels in exterior installations subjected to long exposures to the sun: winter sport stations, installations close to the sea, etc.