



**AT THE SERVICE OF PUBLIC LIGHTING
PROFESSIONALS**



SERTSEM is a manufacturer of weatherproof protection and connection boxes for public lighting poles. We are market leaders due to our long experience in the sector, excellent quality, high performance of our products and great customer service.

Designs used in our product range offer optimum solutions for your installations and projects, ensuring rapid and easy installation and meeting fundamental requirements such as safety and reliability at all times.

We have been designing and manufacturing our range of products since 1990, in compliance with the highest quality and technical service requirements, working under a Quality Assurance system compliant with ISO 9001:2008 standard.

In our company you have a reliable partner, with capacity for innovation and consulting, always at your service.



CERTIFICATION

Applus⁺
Certification
Technological
Center

Campus de la UAB
Avda. Carreres 18
08193 Bellaterra
T 34 93 587 20 00
F 34 93 587 20 01
rct@appluscc.com
www.appluscc.com

CERTIFICADO
Núm. **EC-1447/04**

LGAJ Technological Center
certifica que el sistema de calidad de la empresa:

**TRANSFORMADOS
TERMOPLÁSTICOS, S.L.**

C/ Navia 48
del Can Magre
ALIA DE RONÇANA, Barcelona

Actividad: Plásticos. Diseño y fabricación de cajas de protección y público.

Normas de la norma **ISO 9001:2000**
de 2007

del Centro de Certificación

Applus⁺

Expediente número: **4021260**

Ensayos según norma **UNE 21095**

9.7 y 9.7.1. RIGIDEZ DIELECTRICA

Entre cada borne y los otros polos previamente unidos a la envolvente y el tornillo de sujeción	Tensión de ensayo V	Resultado
Entre todos los bornes unidos entre sí y la envolvente	2500	Cumple
Entre todos los bornes unidos entre sí y el tornillo de sujeción	3750	Cumple
Entre partes activas de diferente polaridad	3750	Cumple
	1460	Cumple

CONCLUSIÓN
El aparato ensayado de la marca **TRANSFER**, cofre de alumbrado público modelo **CF-106**, CUMPLE con la primera, segunda y tercera cifras características del código IP indicadas, según la norma **UNE 20324-83** y con el ensayo de rigidez dieléctrica de los apartados 9.7 y 9.7.1 de la norma **UNE 21095-73**. El grado de protección del aparato ensayado es el siguiente según norma **UNE 20324-83**.

MUESTRA	RESULTADO
Modelo CF-106	IP44S

LGAJ Technological Center, S.A.

Albert Marginet Morales
Gerente del Centro de Electricidad
LGAJ Technological Center S.A.

José Luis Medina Aballán
Técnico Responsable
LGAJ Technological Center S.A.

Los resultados que se indican se refieren, exclusivamente, a la muestra, producto o material entregado al Laboratorio, tal como se indica en el apartado de material recibido, y ensayado en las condiciones indicadas en la/s norma/s citadas en el presente documento.

19 de junio de 2004
4021260
TRANSFORMADOS TERMOPLÁSTICOS S.L.
C/ Navia 48
del Can Magre
08193 Bellaterra
Barcelona

11-04-2002
11-04-2002
20-04-2002

Fecha de recepción de muestras:
Fecha de inicio de los ensayos:
Fecha de finalización de los ensayos:

MATERIAL RECIBIDO
El número de muestra:

Fecha:
Expediente número:
Referencia del procedimiento:

Certification
Technological
Center

Campus de la UAB
Avda. Carreres 18
08193 Bellaterra
T 34 93 587 20 00
F 34 93 587 20 01
rct@appluscc.com
www.appluscc.com

Página 4 de 4

SERTSEM CF-200

Series 200 connection and protection boxes for public lighting have an innovative design with DIN rails that enable you to make different configurations.

Weatherproof protection and connection box for public lighting, with a polycarbonate casing.

Lighting protection is provided by a fuse base for cylindrical cartridge fuses 10x38 type T-0 32A 500V.

There are two terminals for connection or output for light fitting admitting a maximum of 6 mm² cables each.

Inside there are two DIN rails, the upper contains a fuse base and the lower has a SERTEM type terminal strip with 4 input/output terminals admitting a maximum of two 16mm² cables, adding the possibility of distribute the electrical charge between its phases through its wiring with faston terminals.

A SERTSEM type DIN terminals strip with 3 terminals can be installed optionally, admitting a maximum of 2 x 16mm² cables in order to set an earth or double level/flow.

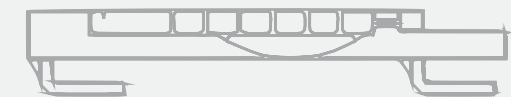
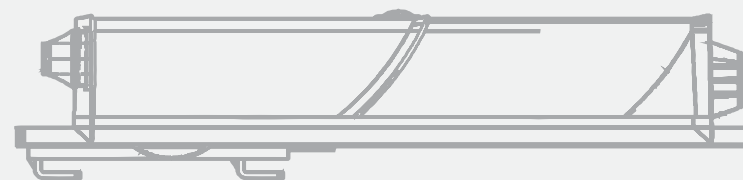
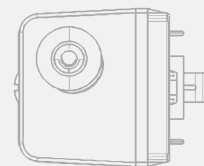
Casing Material:	Polycarbonate
Dimensions:	280 x 54 x 62 mm.
Type of protection:	Fuse holder for cylindrical 10x38 T-0 cartridge fuse
Degree of protection:	IP44 with medium AC according to EN 60529
CE Marking	IK08 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002--

Insulation :	<input checked="" type="checkbox"/> Double insulation Class II
Installation :	The connection is made outside the staff/column; it can also be fitted to facades and posts.
Safety:	Dielectric Strength UNE 21095-73
Certification :	Certified under ENAC homologated standards.
Quality:	ISO 9001:2008 STANDARD

Models	Nr. Poles	Max. Admittance Terminals Input/ Output	Derivation Terminals	Auxiliary terminals	Packaging (units)
CF-200	3P + N	2 X 16 mm ²	2 X 6 mm ²	0	25
CF-200-BAUX	3P + N + 3 PAUX	2 X 16 mm ²	2 X 6 mm ²	2 X 16 mm ²	25



DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES, WEATHERPROOF, SMALL SIZE, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION.



SERTSEM CF-200 COMPONENTS

ACCESSORIES FOR THE DIFFERENT LIGHTING SETUPS

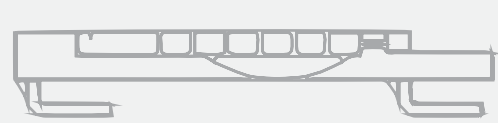
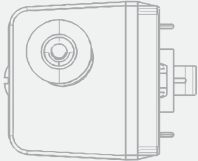
MINI accessory: Up to two 16mm² cables.

MEDIUM accessory: Up to two 20mm² cables.

MAXI accessory: Up to two 25mm² cables.



DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES, WEATHERPROOF, SMALL SIZE, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION.



SERTSEM CF-200 FR

Series 200 connection and protection boxes for public lighting have an innovative design with DIN rails that enable you to make different configurations.

Weatherproof protection and connection box for public lighting, with a polycarbonate casing.

Lighting protection is provided by a fuse base for cylindrical cartridge fuses 10x38 type T-0 32A 500V.

Inside there are two DIN rails, the upper contains a fuse base and the lower enables to install up to 4 terminal strips admitting a minimum of two 1.5mm² cables and a maximum of two 25mm² cables.

A SERTSEM type DIN terminals strip with 3 terminals can be installed optionally, admitting a maximum of 2 x 16mm² cables in order to set an earth and/or double level/flow.

Casing Material:	Polycarbonate
Dimensions:	280 x 54 x 62 mm.
Type of protection:	Fuse holder for cylindrical 10x38 T-0 cartridge fuse
Degree of protection:	IP44 with medium AC according to EN 60529
Marking	IK08 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002CE

Insulation :	<input checked="" type="checkbox"/> Double insulation Class II
Installation :	The connection is made outside the staff/column; it can also be fitted to facades and posts.
Safety:	Dielectric Strength UNE 21095-73
Certification :	Certified under ENAC homologated standards.
Quality:	ISO 9001:2008 STANDARD

Models	Nr. Poles	Max. Admittance Terminals Input/ Output	Derivation Terminals	Auxiliary terminals	Packaging (units)
CF-200 FR	3P + N	25 mm ²	0	0	25
CF-200 FR-BAUX	3P + N + 3 PAUX	25 mm ²	0	2 X 16 mm ²	25



WEATHERPROOF, SMALL SIZE, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION.



SERTSEM CF-200 FR COMPONENTS

ACCESSORIES FOR THE DIFFERENT LIGHTING SETUPS

MINI accessory: Up to two 16mm² cables.

MEDIUM accessory: Up to two 20mm² cables.

MAXI accessory: Up to two 25mm² cables.



WEATHERPROOF, SMALL SIZE, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION.



SERTSEM CF-200 MAG

Series 200 connection and protection boxes for public lighting have an innovative design with DIN rails that enable you to make different configurations.

Weatherproof protection and connection box for public lighting, with a polycarbonate casing.

Lighting protection is offered through a circuit breaker/magnetothermic switch.

There are two terminals for connection or output for light fitting admitting a maximum of 6 mm² cables each.

Inside there are two DIN rails, the upper contains a circuit breaker/magnetothermic switch and the lower has a SERTSEM type terminal strip with 4 input/output terminals admitting a maximum of two 16mm² cables, adding the possibility of distribute the electrical charge between its phases through its wiring with faston terminals.

A SERTSEM type DIN terminals strip with 3 terminals can be installed optionally, admitting a maximum of 2 x 16mm² cables in order to set an earth and/or double level/flow.

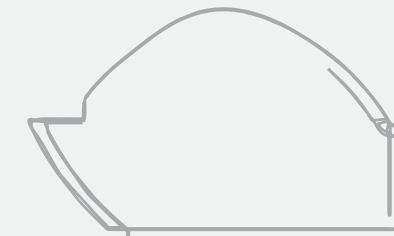
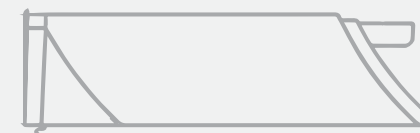
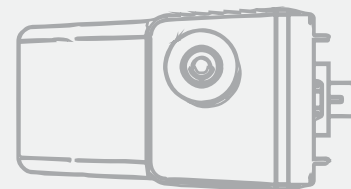
Casing Material:	Polycarbonate
Dimensions:	280 x 54 x 102 mm.
Type of protection:	circuit breaker/ magnetothermic switch
Degree of protection:	IP44 with medium AC according to EN 60529
CE Marking	IK08 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Insulation :	<input checked="" type="checkbox"/> Double insulation Class II
Installation :	The connection is made outside the staff/column; it can also be fitted to facades and posts.
Safety:	Dielectric Strength UNE 21095-73
Certification :	Certified under ENAC homologated standards.
Quality:	ISO 9001:2008 STANDARD

Models	Nr. Poles	Max. Admittance Terminals Input/ Output	Derivation Terminals	Auxiliary terminals	Packaging (units)
CF-200 MAG	3P + N	2 X 16 mm ²	2 X 6 mm ²	0	20
CF-200 MAG-BAUX	3P + N + 3 PAUX	2 X 16 mm ²	2 X 6 mm ²	2 X 16 mm ²	20



CIRCUIT BREAKER PROTECTION, WEATHERPROOF, SMALL SIZE, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION, DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES.



SERTSEM CF-200 MAG COMPONENTS

ACCESSORIES FOR THE DIFFERENT LIGHTING SETUPS

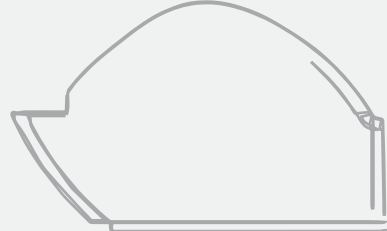
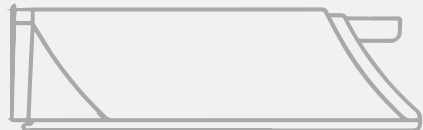
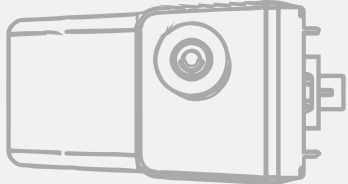
MINI accessory: Up to two 16mm² cables.

MEDIUM accessory: Up to two 20mm² cables.

MAXI accessory: Up to two 25mm² cables.



CIRCUIT BREAKER PROTECTION, WEATHERPROOF, SMALL SIZE, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION, DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES.



SERTSEM CF-200 MAG FR

Series 200 connection and protection boxes for public lighting have an innovative design with DIN rails that enable you to make different configurations.

Weatherproof protection and connection box for public lighting, with a polycarbonate casing.

Lighting protection is offered through a circuit breaker/magnetothermic switch.

Inside there are two DIN rails, the upper contains a circuit breaker/magnetothermic switch and the lower enables to install up to 4 terminal strips admitting a minimum of two 1.5mm² cables and a maximum of two 25mm² cables.

A SERTSEM type DIN terminals strip with 3 terminals can be installed optionally, admitting a maximum of 2 x 16mm² cables in order to set an earth or double level/flow.

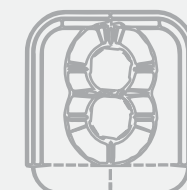
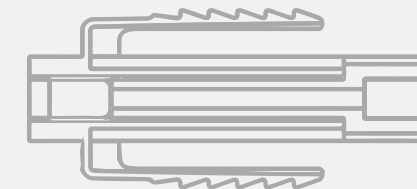
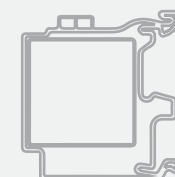
Casing Material:	Polycarbonate
Dimensions:	280 x 54 x 102 mm.
Type of protection:	circuit breaker/ magnetothermic switch
Degree of protection:	IP44 with medium AC according to EN 60529
CE Marking	IK08 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Insulation :	<input checked="" type="checkbox"/> Double insulation Class II
Installation :	The connection is made outside the staff/column; it can also be fitted to facades and posts.
Safety:	Dielectric Strength UNE 21095-73
Certification :	Certified under ENAC homologated standards.
Quality:	ISO 9001:2008 STANDARD

Models	Nr. Poles	Max. Admittance Terminals Input/ Output	Derivation Terminals	Auxiliary terminals	Packaging (units)
CF-200 MAG FR	3P + N	25 mm ²	0	0	20
CF-200 MAG FR-BAUX	3P + N + 3 PAUX	25 mm ²	0	2 X 16 mm ²	20



CIRCUIT BREAKER PROTECTION, WEATHERPROOF, SMALL SIZE, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION.



SERTSEM CF-200 MAG FR COMPONENTS

ACCESSORIES FOR THE DIFFERENT LIGHTING SETUPS

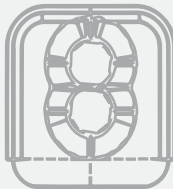
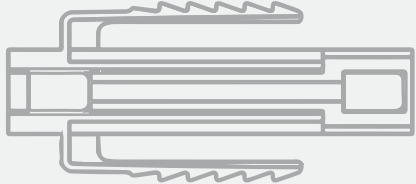
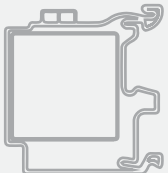
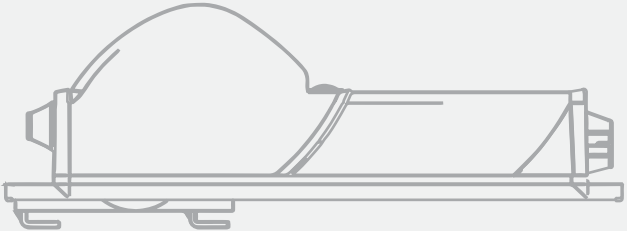
MINI accessory: Up to two 16mm² cables.

MEDIUM accessory: Up to two 20mm² cables.

MAXI accessory: Up to two 25mm² cables.



CIRCUIT BREAKER PROTECTION, WEATHERPROOF, SMALL SIZE, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION.



SERTSEM CF-100

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING

Degree of protection: IP 44 with AC001
 IP 13 with AC002
 IK08 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Double insulation
 CE Marking

Weatherproof protection and connection box for public lighting, with a polycarbonate casing.

The protection of the light fitting is through cylindrical 10x38 type T-0 fuse cartridges.

Inside there is a SERTSEM-type terminal strip with four input and output terminals admitting a maximum of two 35 mm² cables, plus one or two optional auxiliary terminals for two 16 mm² cables for fitting an earth or double level/flow.

There are two terminals for connection or output for light fitting admitting a maximum of 6 mm² cable each.

The traditional design has been substantially modified in this model; improving its technical specifications and adding the possibility of distributing the electrical charge between its phases through its wiring with faston terminals.



SERTSEM - TECHNICAL SPECIFICATIONS - CF-100

Casing Material:	Polycarbonate
Dimensions:	135 x 98 x 56 mm.
Type of Protection:	Fuse holder for cylindrical 10x38 T-0 cartridge fuses
Degree of protection:	IP 44 with AC001 - IP 13 with AC002 according to norm EN 60529
CE Marking	IK08 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Insulation:	<input type="checkbox"/> Measurement of creepage lines and air distance UNE 20098-75
Installation:	The connection is made outside the staff/column, it can also be fitted to face des and posts. Connection/disconnection of fuses by a frontal pressure/extraction cover.
Safety:	Dielectric Strength UNE 21095-73
Certification:	Certified under ENACs homologated standards.
Quality:	ISO 9001:2008 STANDARD

Models	Nr. Poles	Max. Admittance Terminals Input/ Output	Derivation Terminals	Auxiliary terminals	Packaging (units)
CF-100	3P + N	2 X 35 mm ²	2 X 6 mm ²	0	50
CF-100-T	3P + N +	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	50
CF-100-C	3P +N+2 PAUX	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	50

DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES, SPACIOUSNESS, QUICK AND EASY TO INSTALL AND MAINTAIN, HIGH QUALITY INSTALLATION.



SERTSEM CF-100 COMPONENTS

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING

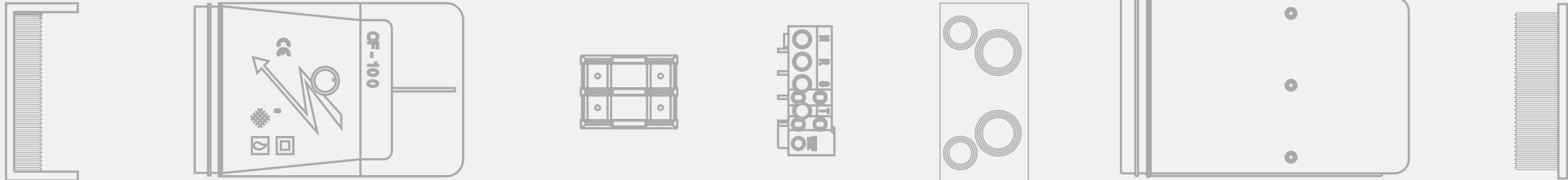


AC 002
Rubber
Fringe entry.



AC 001
Rubber Gland.

DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES, SPACIOUSNESS, QUICK AND EASY TO INSTALL AND MAINTAIN, HIGH QUALITY INSTALLATION.



SERTSEM CF-100/M

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING

Degree of protection: IP 44 with AC001
 IP 13 with AC002
 IK08 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Double insulation
 CE Marking

Weatherproof protection and connection box for public lighting, with a polycarbonate casing.

The protection of the light fitting is through cylindrical 10x38 type T-0 fuse cartridges.

Inside, we have designed a strip with four input and output open terminals, all of them with capacity for up to two 25mm² cables.

There are two terminals for connection or output for light fitting admitting a maximum of 6 mm² cables each.

This junction box is especially designed for a staff/column type AM-10, although its size allows it to be used in any other type of poles. It can also be fitted outdoors, and depending on its location, it will be advisable to use one or another accessory (AC002 or AC001).



SERTSEM - TECHNICAL SPECIFICATIONS - CF-100/M

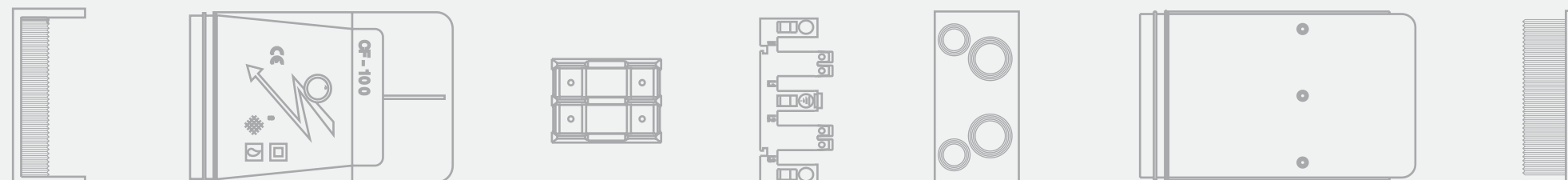
Casing Material:	Polycarbonate
Dimensions:	135 x 98 x 56 mm.
Type of Protection:	Fuse holder for cylindrical 10x38 T-0 cartridge fuses
Degree of protection:	IP 44 with AC001 - IP 13 with AC002 according to norm EN 60529 IK08 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002
CE Marking	

Insulation:	<input type="checkbox"/> Measurement of creepage lines and air distance UNE 20098-75
Installation:	The connection is made outside the staff/column, it can also be fitted to face des and posts. Connection/disconnection of fuses by a frontal pressure/ extraction cover.
Safety:	Dielectric Strength UNE 21095-73
Certification:	Certified under ENACs homologated standards.
Quality:	ISO 9001:2008 STANDARD

Models	Nr. Poles	Max. Admittance Terminals Input/ Output	Derivation Terminals	Auxiliary terminals	Packaging (units)
CF-100/M	3P + N	2 X 25 mm ²	2 X 6 mm ²	0	50



QUICK AND EASY TO INSTALL AND MAINTAIN, HIGH QUALITY INSTALLATION, SPACIOUSNESS.



SERTSEM CF-100/M COMPONENTS

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING

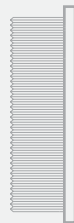
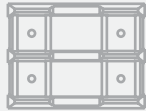
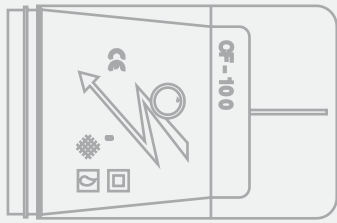
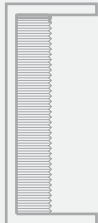


AC 002
Rubber
Fringe entry.



AC 001
Rubber Gland.

QUICK AND EASY TO INSTALL AND MAINTAIN, HIGH QUALITY INSTALLATION, SPACIOUSNESS



SERTSEM CF-101

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING

Degree of protection: IP 54 with AC001

IK10 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Double insulation

CE Marking

Weatherproof protection and connection box for public lighting, with a polycarbonate casing.

The protection of the light fitting is through cylindrical 10x38 type T-0 fuses cartridges.

Inside, there is a SERTSEM type terminal strip with four input and output terminals admitting a maximum of two 35 mm² cables, plus one or two optional auxiliary terminals for two 16 mm² cables for fitting an earth or double level/flow.

There are two terminals for connection or output for light fitting admitting a maximum of 6 mm² cable each.

This design stands out for its safety, as the casing, once fitted, does not show any opening mechanism, which makes it difficult for non-authorized people to manipulate it (children, etc.).



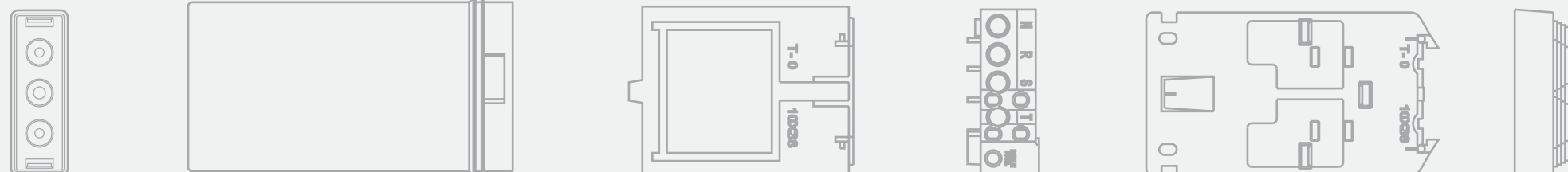
SERTSEM - TECHNICAL SPECIFICATIONS -CF-101

Casing Material:	Polycarbonate
Dimensions:	162 x 90 x 53 mm.
Type of Protection:	Fuse holder for cylindrical 10x38 T-0 cartridge fuses
Degree of protection:	IP 54 with AC001 according to norm EN 60529
CE Marking	IK10 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Insulation:	<input type="checkbox"/> Measurement of creepage lines and air distance UNE 20098-75
Installation:	The connection is made outside the staff/column, it can also be fitted to facades and posts. Connection/disconnection of fuses by a vertical movement casing.
Safety:	Dielectric Strength UNE 21095-73
Certification:	Certified under ENACs homologated standards.
Quality:	ISO 9001:2008 STANDARD

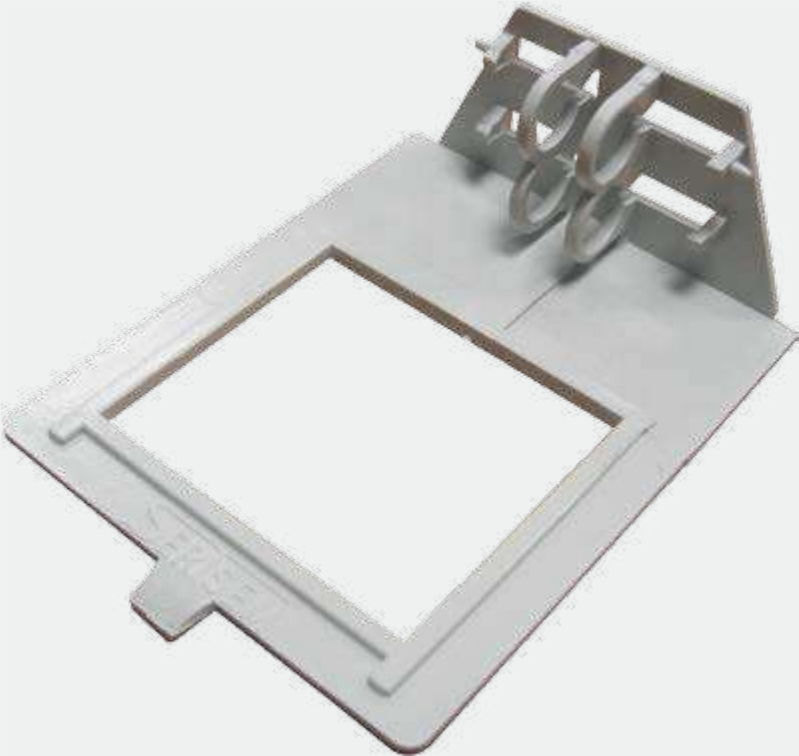
Models	Nr. Poles	Max. Admittance Terminals Input/ Output	Derivation Terminals	Auxiliary terminals	Packaging (units)
CF-101	3P + N	2 X 35 mm ²	2 X 6 mm ²	0	50
CF-101-T	3P + N +	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	50
CF-101-C	3P +N+2 PAUX	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	50

SMALL SIZE, DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES, WEATHERPROOF, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION.



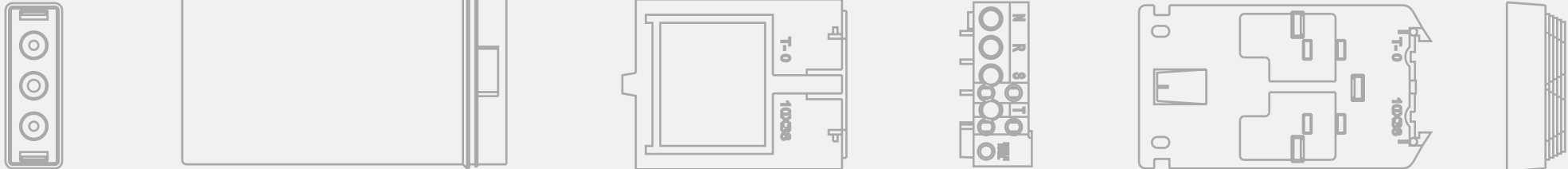
SERTSEM CF-101 COMPONENTS

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING



AC 001 Rubber Gland.

SMALL SIZE, DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES, WEATHERPROOF, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION.



SERTSEM CF-102

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING

Degree of protection: IP 54 with AC001

IK10 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Double insulation

CE Marking

Weatherproof protection and connection box for public lighting, with a polycarbonate casing. The protection of the light fitting is through cylindrical 10x38 type T-0 fuses cartridges.

Inside, there is a SERTSEM type terminal strip with four input and output terminals admitting a maximum of two 16 mm² cables, plus one or two optional auxiliary terminals with the same capacity cables for fitting an earth or double level/flow.

There are two terminals for connection or output for light fitting admitting a maximum of 6 mm² cable each.

Its small size makes it the best junction box for those installations where the size of the staff/column is particularly limited.

This model, as with the CF101, stands out for its safety as it shares the same casing design.



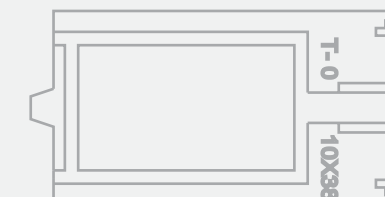
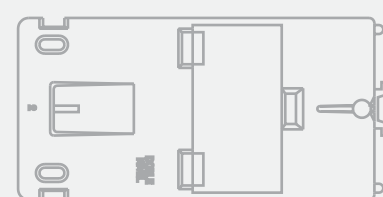
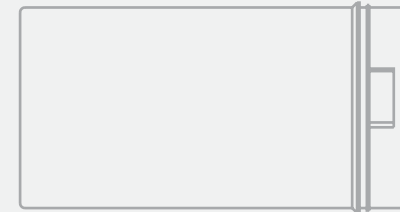
SERTSEM - TECHNICAL SPECIFICATIONS - CF-102

Casing Material:	Polycarbonate
Dimensions:	140 x 58 x 44 mm.
Type of Protection:	Fuse holder for cylindrical 10x38 T-0 cartridge fuses
Degree of protection:	IP 54 with AC001 according to norm EN 60529 IK10 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002
CE Marking	

Insulation:	<input type="checkbox"/> Measurement of creepage lines and air distance UNE 20098-75
Installation:	The connection is made outside the staff/column, it can also be fitted to facades and posts. Connection/disconnection of fuses by a vertical movement casing.
Safety:	Dielectric Strength UNE 21095-73
Certification:	Certified under ENACs homologated standards.
Quality:	ISO 9001:2008 STANDARD

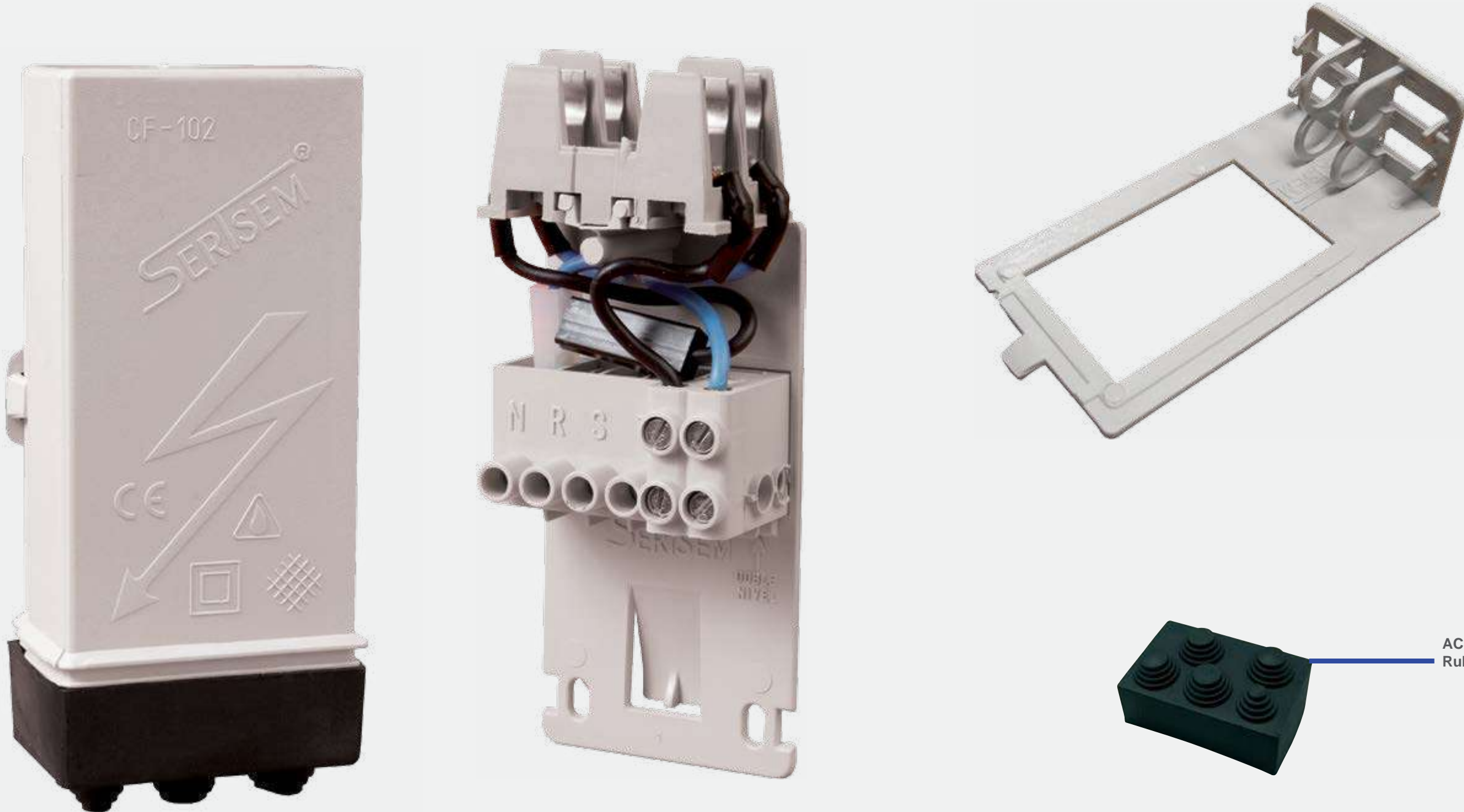
Models	Nr. Poles	Max. Admittance Terminals Input/ Output	Derivation Terminals	Auxiliary terminals	Packaging (units)
CF-102	3P + N	2 X 16 mm ²	2 X 6 mm ²	0	50
CF-102-T	3P + N +	2 X 16 mm ²	2 X 6 mm ²	2 X 16 mm ²	50
CF-102-C	3P +N+2 PAUX	2 X 16 mm ²	2 X 6 mm ²	2 X 16 mm ²	50

SMALL SIZE, DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES, WEATHERPROOF, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION.

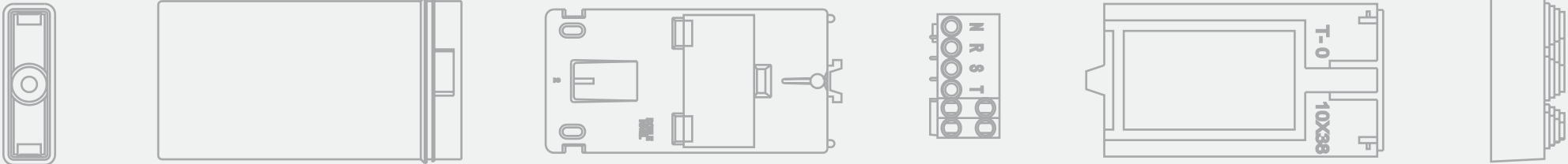


SERTSEM CF-102 COMPONENTS

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING



SMALL SIZE, DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES, WEATHERPROOF, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION.



SERTSEM CF-103

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING

Degree of protection: IP 44 with AC001
 IP 13 with AC002
 IK07 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Double insulation

CE Marking

Weatherproof protection and connection box for public lighting, with a polycarbonate casing.

The protection of the light fitting is through cylindrical 10x38 type T-0 fuses cartridges.

Inside, there is a SERTSEM type terminal strip with four input and output terminals admitting a maximum of two 16 mm² cables.

There are two terminals for connection or output for light fitting admitting a maximum of 6 mm² cable each.

This innovative design incorporates in its small dimensions an added value to the traditional design of public lighting junction boxes.



SERTSEM - TECHNICAL SPECIFICATIONS - CF-103

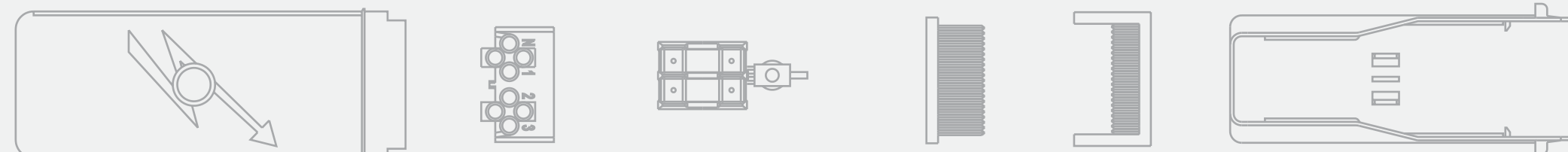
Casing Material:	Polycarbonate
Dimensions:	153 x 62 x 45 mm.
Type of Protection:	Fuse holder for cylindrical 10x38 T-0 cartridge fuses
Degree of protection:	IP 44 with AC001 - IP 13 with AC002 according to norm EN 60529 IK07 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002
CE Marking	

Insulation:	<input checked="" type="checkbox"/> Measurement of creepage lines and air distance UNE 20098-75
Installation:	The connection is made outside the staff/column, it can also be fitted to facades and posts. Connection/disconnection of fuses by a frontal pressure/extraction cover.
Safety:	Dielectric Strength UNE 21095-73
Certification:	Certified under ENACs homologated standards.
Quality:	ISO 9001:2008 STANDARD

Models	Nr. Poles	Max. Admittance Terminals Input/ Output	Derivation Terminals	Auxiliary terminals	Packaging (units)
CF-103	3P + N	2 X 16 mm ²	2 X 6 mm ²	0	50

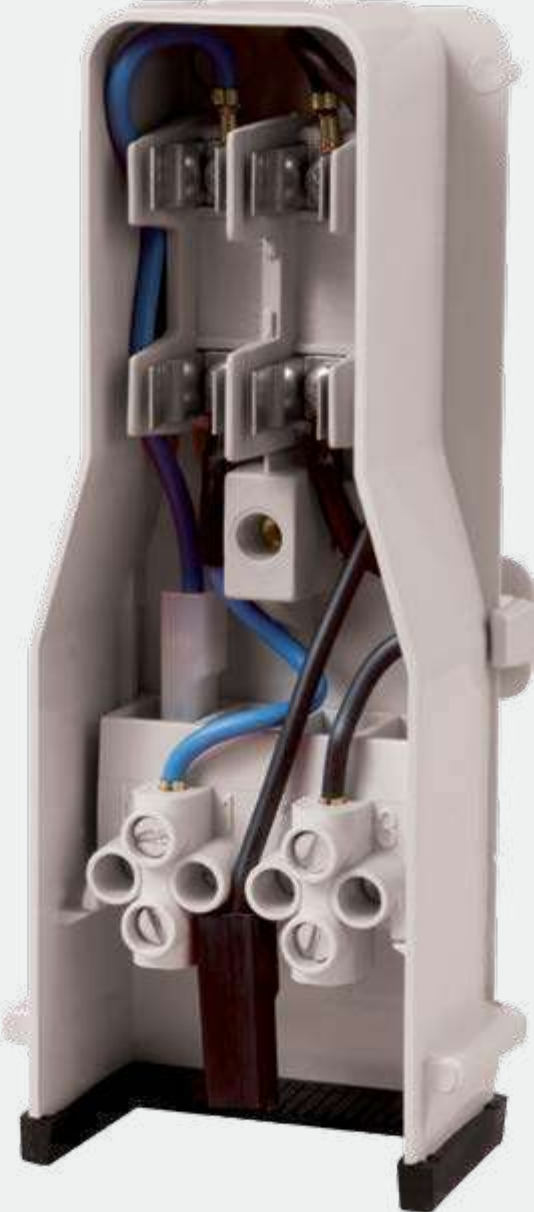


DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES, SPACIOUSNESS, QUICK AND EASY TO INSTALL AND MAINTAIN, HIGH QUALITY INSTALLATION.



SERTSEM CF-103 COMPONENTS

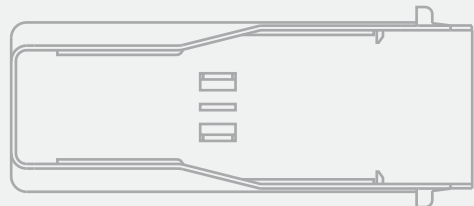
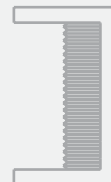
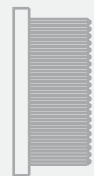
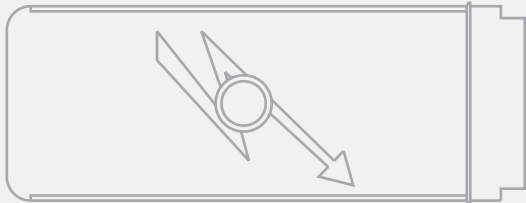
WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING



AC 002
Rubber
Fringe entry.

AC 001
Rubber Gland.

DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES, SPACIOUSNESS, QUICK AND EASY TO INSTALL AND MAINTAIN, HIGH QUALITY INSTALLATION.



SERTSEM CF-105

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING

Degree of protection: IP 44 with AC001
 IP 13 with AC002
 IK08 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Double insulation

CE Marking

Weatherproof protection and connection box for public lighting, with a polycarbonate casing.

Lighting protection is provided by cylindrical cartridge fuses 10x38 type T-0.

Inside, there is a fuse base for four cylindrical cartridge fuses 10x38 type T-0 and four terminals for connection or output for light fittings of 6 mm², enabling the protection of two light fittings with a single junction box.

Inside, there is a **SERTSEM-type** terminal strip with four input and output terminals admitting a maximum of two 35 mm² cables, plus one or two optional auxiliary terminals for two 16 mm² cables for fitting an earth or double level/flow.

It is advisable to fit it to 9-metre columns which have greater opening access. It can also be supplied with a fuse base for capacity of two cylindrical cartridges, allowing the protection of one light fitting while at the same time maintaining the easy installation offered by its spaciousness.



SERTSEM - TECHNICAL SPECIFICATIONS - CF-105

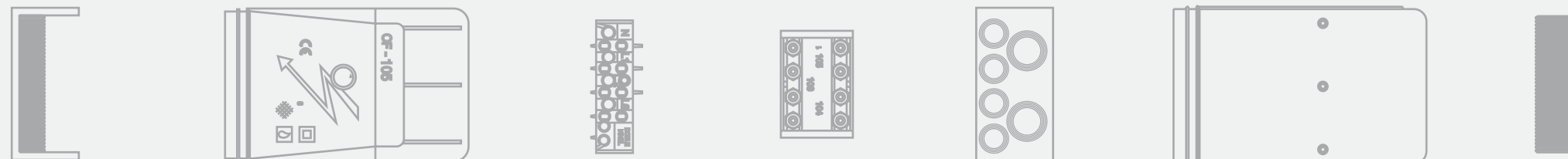
Casing Material: Polycarbonate
Dimensions: 165 x 105 x 68 mm.
Type of Protection: Fuse holder for cylindrical 10x38 T-0 cartridge fuses
Degree of protection: IP 44 with AC001 - IP 13 with AC002 according to norm EN 60529
 IK08 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002
CE Marking

Insulation: Measurement of creepage lines and air distance UNE 20098-75
Installation: The connection is made outside the staff/column, it can also be fitted to facades and posts. Connection/disconnection of fuses by a frontal pressure/ extraction cover.
Safety: Dielectric Strength UNE 21095-73
Certification: Certified under ENACs homologated standards.
Quality: ISO 9001:2008 STANDARD

Models	Nr. Poles	Max. Admittance Terminals Input/ Output	Derivation Terminals	Auxiliary terminals	Packaging (units)
(1) CF-105	3P + N	2 X 35 mm ²	2 X 6 mm ²	0	30
(1) CF-105-T	3P + N +	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	30
(1) CF-105-C	3P +N+2 PAUX	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	30
(2) CF-105-2	3P + N	2 X 35 mm ²	2 X 6 mm ²	0	30
(2) CF-105-2T	3P + N +	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	30
(2) CF-105-2C	3P +N+2 PAUX	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	30

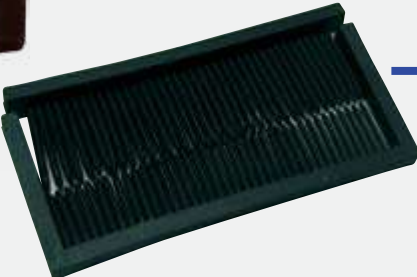
Notes: (1) 4 Fuses Box, (2) 2 Fuses Box.
 The four fuse boxes are equipped with connections to protect the light fitting through different phases.

PROTECTION OF TWO LIGHT FITTINGS WITH A SINGLE JUNCTION BOX, SPACIOUSNESS, QUICK AND EASY TO INSTALL AND MAINTAIN, HIGH QUALITY INSTALLATION, DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES.



SERTSEM CF-105 COMPONENTES

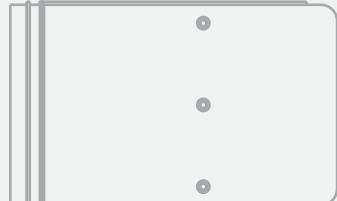
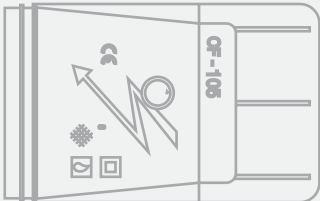
WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING



AC 001
Rubber Gland.

AC 002
Rubber
Fringe entry.


PROTECTION OF TWO LIGHT FITTINGS WITH A SINGLE JUNCTION BOX, SPACIOUSNESS, QUICK AND EASY TO INSTALL AND MAINTAIN, HIGH QUALITY INSTALLATION, DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES.




SERTSEM CF-106/M

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING

Degree of protection: IP 44 with AC001
 IP 13 with AC002
 IK08 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Double insulation 

CE Marking 

Weatherproof protection and connection box for public lighting, with a polycarbonate casing.

Lighting protection is provided by a fuse base with capacity up to 4 cylindrical cartridge fuses 10x38 type T-0 and four terminals for connection or output of 6mm² light fittings, enabling the protection of two light fittings with a single junction box.

Inside, we have designed a strip with four input and output open terminals. Two versions are possible: Terminals of 14 mm², admitting two 35 mm² cables each or terminals of 12 mm², with the capacity for two 25 mm² cables each, besides one or two optional auxiliary terminals for two 16 mm² cables for fitting an earth or double level/flow.

A special feature of this type of open terminal is the ease of fitting the cable inside from the front by just removing the screw.

It is advisable to fit it to 9-metre columns which have greater opening access. It can also be supplied with a fuse base for capacity of two cylindrical cartridges, allowing the protection of one light fitting while at the same time maintaining the easy installation offered by its spaciousness.



SERTSEM - TECHNICAL SPECIFICATIONS - CF-106/M

Casing Material: Polycarbonate
Dimensions: 165 x 135 x 73 mm.
Type of Protection: Fuse holder for cylindrical 10x38 T-0 cartridge fuses
Degree of protection: IP 44 with AC001 - IP 13 with AC002 according to norm EN 60529
CE Marking IK08 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002





Insulation:  Measurement of creepage lines and air distance UNE 20098-75

Installation: The connection is made outside the staff/column, it can also be fitted to facades and posts. Connection/disconnection of fuses by a frontal pressure/extraction cover.

Safety: Dielectric Strength UNE 21095-73

Certification: Certified under ENACs homologated standards.

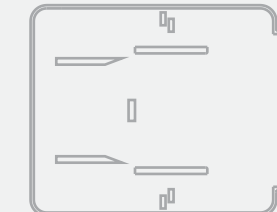
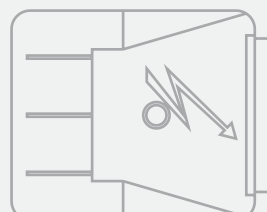
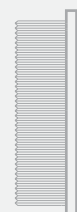
Quality: ISO 9001:2008 STANDARD

Models	Nr. Poles	Max. Admittance Terminals Input/Output	Derivation Terminals	Auxiliary terminals	Packaging (units)
(2) CF-106/M	3P + N	2 X 35 mm ²	2 X 6 mm ²	0	25
(1) CF-106/M4	3P + N	2 X 35 mm ²	2 X 6 mm ²	0	25
(2) CF-106-T/M	3P + N+ 	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	25
(2) CF-106/M-C	3P + N+2 PAUX	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	25
(1) CF-106/M4-C	3P + N+2 PAUX	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	25
(1) CF-106-T/M4	3P + N+ 	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	25
(2) CF-106/M/12	3P + N	2 X 25 mm ²	2 X 6 mm ²	0	25
(1) CF-106/M4/12	3P + N	2 X 25 mm ²	2 X 6 mm ²	0	25
(2) CF-106-T/M/12	3P + N+ 	2 X 25 mm ²	2 X 6 mm ²	2 X 16 mm ²	25
(2) CF-106/M-C/12	3P + N+2 PAUX	2 X 25 mm ²	2 X 6 mm ²	2 X 16 mm ²	25
(1) CF-106/M4-C/12	3P + N+2 PAUX	2 X 25 mm ²	2 X 6 mm ²	2 X 16 mm ²	25
(1) CF-106-T/M4/12	3P + N+ 	2 X 25 mm ²	2 X 6 mm ²	2 X 16 mm ²	25

Notes: (1) 4 Fuses Box, (2) 2 Fuses Box.

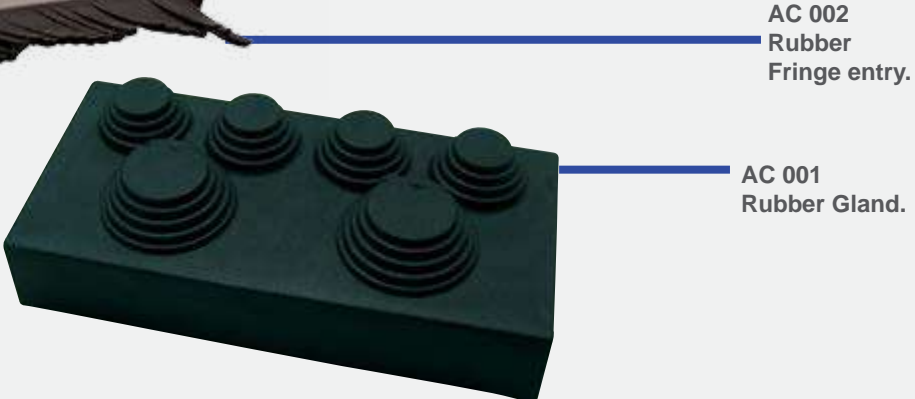
The four fuse boxes are equipped with connections to protect the light fitting through different phases.

PROTECTION OF TWO LIGHT FITTINGS WITH A SINGLE JUNCTION BOX, SPACIOUSNESS, QUICK AND EASY TO INSTALL AND MAINTAIN, HIGH QUALITY INSTALLATION.

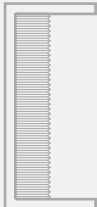
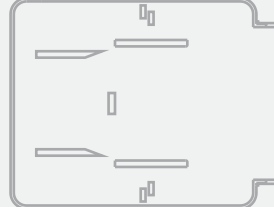
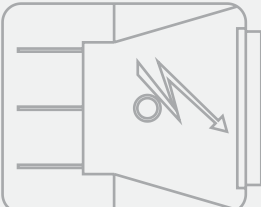


SERTSEM CF-106/M COMPONENTS

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING



PROTECTION OF TWO LIGHT FITTINGS WITH A SINGLE JUNCTION BOX, SPACIOUSNESS, QUICK AND EASY TO INSTALL AND MAINTAIN, HIGH QUALITY INSTALLATION.



SERTSEM CM

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING

Degree of protection: IP 54 with AC001

IK10 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Double insulation 

CE Marking

Weatherproof protection and connection wall box for public lighting, with a polycarbonate casing.

The protection of the light fitting is through cylindrical 10x38 type T-0 fuse cartridges.

Inside, there is a SERTSEM type terminal strip with four input/output terminals admitting a maximum of two 16 mm² cables (CM type), or four input/output terminals admitting a maximum of two 35 mm² cables (CM-35 type), as well as up to three optional auxiliary terminals for two 16 mm² cables each for fitting an earth or double level/flow.


There are two terminals for connection or output for light fitting admitting a maximum of 6 mm² cables each.





This model is specially designed for facades and posts and cannot be fitted on staffs/columns. The special design of this wall junction box makes it a unique product on the market, being ideal for outdoor installations, due to its technical characteristics and careful design.



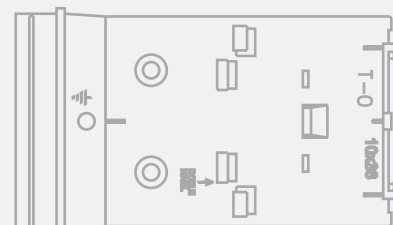
SERTSEM - TECHNICAL SPECIFICATIONS - CM

Casing Material:	Polycarbonate
Dimensions:	180 x 83 x 51 mm.
Type of Protection:	Fuse holder for cylindrical 10x38 T-0 cartridge fuses
Degree of protection:	IP 54 with AC001 according to norm EN 60529
CE Marking	IK10 UNE-EN 50102:1996+A1:1999+corr:2002+A1CORR:2002

Insulation:	 Measurement of creepage lines and air distance UNE 20098-75
Installation:	Designed to be fitted only on facades and posts. Connection/disconnection of fuses by a vertical movement casing.
Safety:	Dielectric Strength UNE 21095-73
Certification:	Certified under ENACs homologated standards.
Quality:	ISO 9001:2008 STANDARD

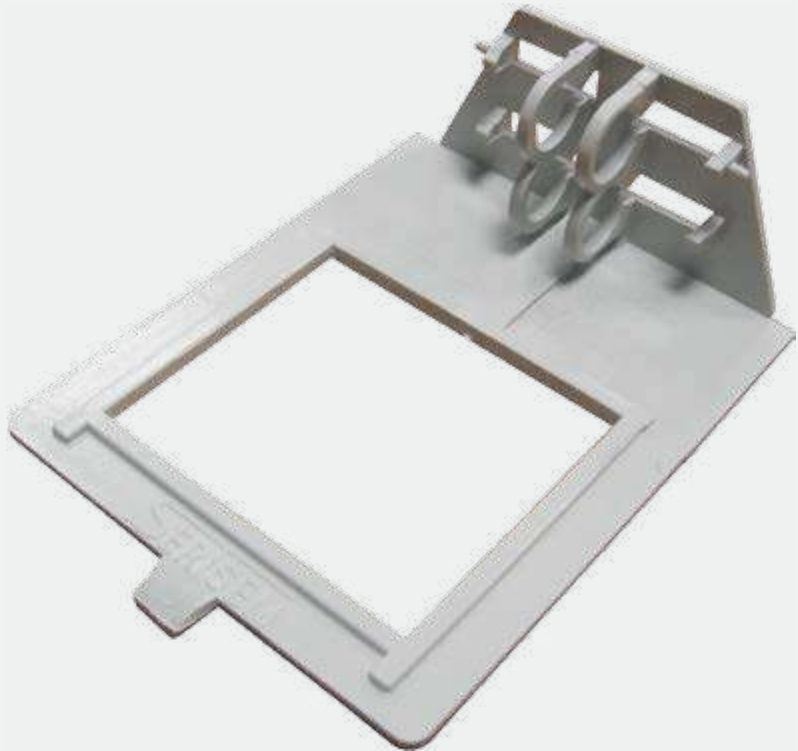
Models	Nr. Poles	Max. Admittance Terminals Input/ Output	Derivation Terminals	Auxiliary terminals	Packaging (units)
CM	3P + N	2 X 16 mm ²	2 X 6 mm ²	0	50
CM-T	3P + N+ 	2 X 16 mm ²	2 X 6 mm ²	2 X 16 mm ²	50
CM-C	3P + N+2 PAUX	2 X 16 mm ²	2 X 6 mm ²	2 X 16 mm ²	50
CM-CT	3P + N+  2PAUX	2 X 16 mm ²	2 X 6 mm ²	2 X 16 mm ²	50
CM/35	3P + N	2 X 35 mm ²	2 X 6 mm ²	0	50
CM-T/35	3P + N+ 	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	50
CM-C/35	3P + N+2 PAUX	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	50
CM-CT/35	3P + N+  2 PAUX	2 X 35 mm ²	2 X 6 mm ²	2 X 16 mm ²	50

DESIGNED FOR OUTDOORS, DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES, WEATHERPROOF, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION.



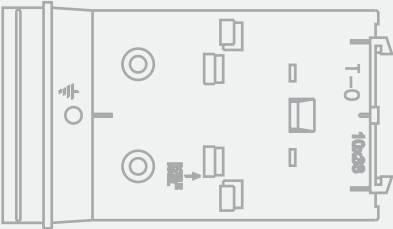
SERTSEM CM COMPONENTS

WEATHERPROOF PROTECTION AND CONNECTION BOX FOR PUBLIC LIGHTING



AC 001 Rubber Gland.

DESIGNED FOR OUTDOORS, DISTRIBUTION OF THE ELECTRICAL CHARGE BETWEEN ITS PHASES, WEATHERPROOF, QUICK AND EASY TO INSTALL AND MAINTAIN, GREATER INSULATION SAFETY, HIGH QUALITY INSTALLATION.





C/ Carles Buigas, Nave 7
Pol. Ind. Can Magre
08187 Sta. Eulàlia de Ronçana
BARCELONA (SPAIN)
Tel.: +34 938 449 508
Fax: +34 938 447 704

TRANS formados
TER moplásticos, s.l.