df Electric

CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES

PMX

industrial modular fuse holders for cylindrical fuse links

PMX 22x58

8x32 10x38 14x51 22x58 22x65

PROTECTING THE WORLD

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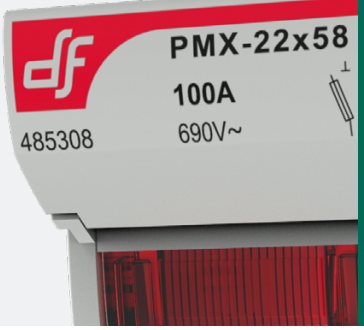

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CYLINDRICAL

22x58

22x58

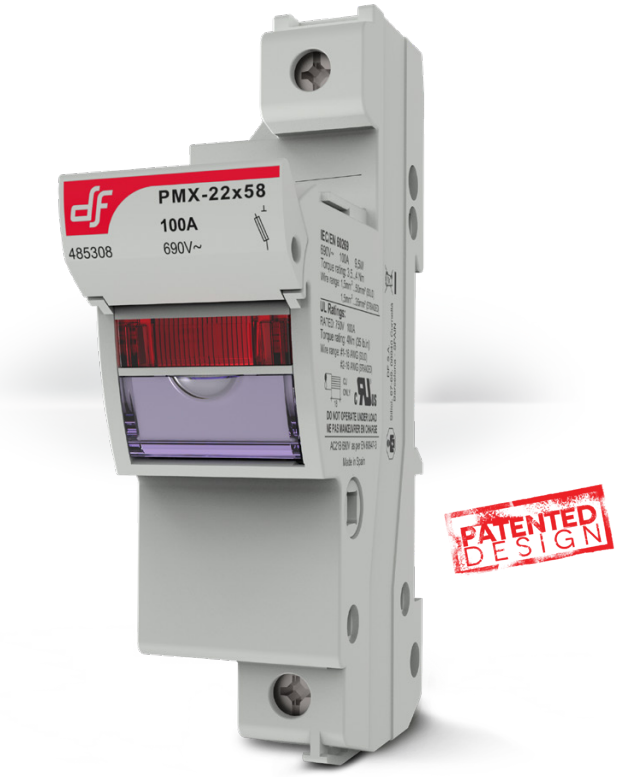
RATED CURRENT
100A

RATED VOLTAGE
690V AC
750V DC

MAXIMUM POWER DISSIPATION
12W

PROTECTION INDEX
IP20

STANDARDS
IEC/EN 60269-1
IEC/EN 60269-2
UL4248-1
UL486E
CSA C22.2 Nº 4248-1
CSA 22.2 Nº 65



Industrial modular fuse holders for cylindrical fuse links

Modular fuse holder for cylindrical fuse link size 22x58 according IEC/EN 60269 standard.

Compact design, with reduced dimensions.

Ventilation zones optimized for a better heat dissipation.

Manufactured with a high quality materials

- Silver plated copper contacts.
- Plastic materials with high temperature resistance and self-extinguishable.
- All the materials are according to the European Directive RoHS.

RoHS COMPLIANT

halogen free

Extended range of accessories is available.

UL certification (File E193529).

c UL us

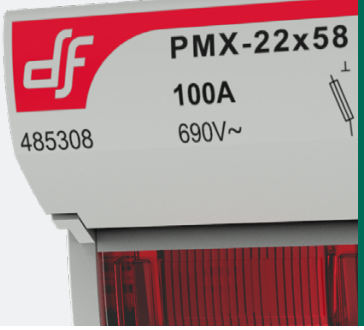
Accessories

REFERENCE	DESCRIPTION	PACKING Uni /BOX
480005	PIN FOR MULTIPOLE ASSEMBLY	12/300
485356	HANDLE TIES FOR MULTIPOLE ASSEMBLY	12/300
485357	TIES FOR MICROSWITCH ASSEMBLY	12/300
485358	LOCK SUPPORT	5
485359	1P MICRO	5
485360	3P MICRO	2
485361	3P - DOUBLE MICRO	2
485362	MICRO 1P EXTENSION	5
485363	MICRO 3P EXTENSION	2
485364	FUSING INDICATOR REPLACEMENT 120/690V AC	3
485365	FUSING INDICATOR REPLACEMENT 24V DC	3
485366	SPECIAL IP20 PROTECTION ACCESSORY	12
485367	SPECIAL SCREW CONNECTION ACCESSORY	12
485371	SCREW PROTECTION ACCESSORY	20
485372	PRE-BREAKING MODULE	6/48

Range

U_n	REFERENCE WITHOUT INDICATOR	REFERENCE WITH INDICATOR	POLES	MODULES	PACKING Uni /BOX
690V AC 750V DC	**485301** c UL us	**485308** c UL us	1P	2	6/48
	485302 c UL us	–	N	2	6/48
	485303 c UL us	**485309** c UL us	1P + N	4	3/24
	485304 c UL us	**485310** c UL us	2P	4	3/24
	485305 c UL us	**485311** c UL us	3P	6	2/16
	485306 c UL us	**485312** c UL us	3P + N	8	1/12
	485307 c UL us	**485313** c UL us	4P	8	1/12
24V DC	–	**485314** c UL us	1P	2	6/48
	–	**485315** c UL us	1P + N	4	3/24
	–	**485316** c UL us	2P	4	3/24

	WITH MICROSWITCH PREBREAKING FUSING - PRESENCE	WITH MICROSWITCH ONLY FUSION	POLES	MODULES	PACKING Uni /BOX
690V AC 750V DC	**485320** c UL us	**485326** c UL us	1P	2	6/48
	485321 c UL us	**485327** c UL us	1P + N	4	3/24
	485322 c UL us	**485328** c UL us	2P	4	3/24
	485323 c UL us	**485329** c UL us	3P	6	2/16
	485324 c UL us	**485330** c UL us	3P + N	8	1/12
	485325 c UL us	**485331** c UL us	4P	8	1/12



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industrial modular fuse holders
for cylindrical fuse links

CYLINDRICAL

22x58

Technical data

Rated current *	100A
Rated voltage	690V AC | 750V DC IEC 750V AC UL-CSA
Rated power dissipation	9,5W
Maximum power dissipation	12W
Power dissipation per pole	80% In > 1,38W 100% In > 2,18W
Utilization category as per EN 60947-3	AC-21B 690V
Pollution degree	3
Protection index ▸FIG. 5	IP20
Rated impulse withstand voltage	6kV U imp
Ambient temperature of service	-40°C ... 70°C (with carrier operation) -50°C ... 80°C (without carrier operation)
Storage temperature	-50°C ... 80°C

Derating by number of poles

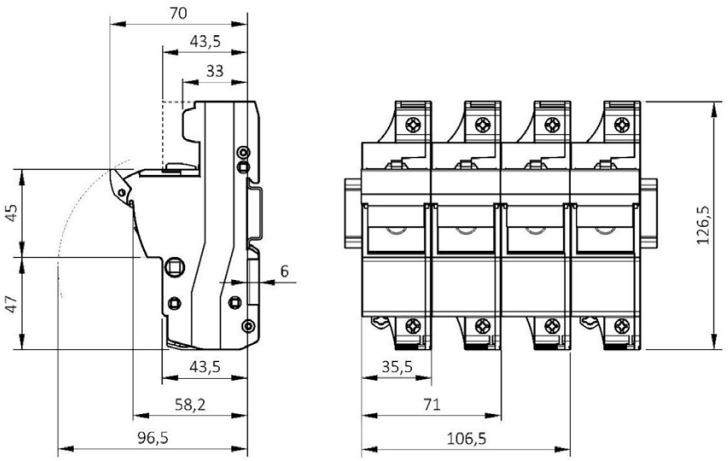
POLES	I_{MAX}
1 ... 4	In
5 ... 6	0,8 x In
7 ... 9	0,7 x In
≥ 10	0,6 x In

Correction of the admissible current in function of the temperature

20° C	1
30° C	0,95
40° C	0,90
50° C	0,80
60° C	0,70
70° C	0,60

* Accept 125A fuse links

Dimensions



Weight

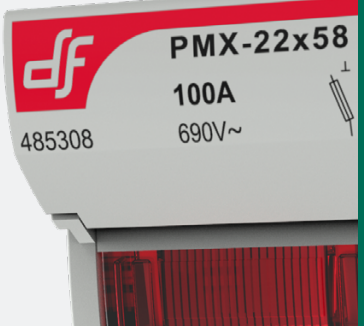
	STANDARD | WITH INDICATOR	WITH MICROSWITCH
1P	155gr	165gr
N	170gr	–
1P + N	325gr	335gr
2P	310gr	330gr
3P	465gr	495gr
3P + N	635gr	665gr
4P	620gr	660gr

Weight without packing

Standards

IEC/EN 60269-1
IEC/EN 60269-2
UL4248-1 Fuse holders
UL486E Wiring terminals
CSA C22.2 Nº 4248-1 Fuse holder assemblies
CSA 22.2 Nº 65 Wire connectors

Certifications



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Application characteristics

For mounting on DIN/EN standard rail	DIN 46277/1-3 (EN50022) Clip fixation with 2 positions

Connecting wire
Copper wires only

WIRES	METRIC	AWG	WIRING
1	1,5…50mm² Solid 1,5…35mm² Stranded	1…..16 AWG Solid 2…..16 AWG Stranded	
2 Same cross section and type	1,5…16mm² Solid 1,5…10mm² Stranded	6…..16 AWG Solid / Stranded	

Wire-end terminals

The use of wire-end terminals may allow to increase theconnecting wire section.

Wire-end terminals recommended mounting:

The use of wire-end terminals could not guarantee the IP20 protection degree.

Ferrules

It's recommended use of ferrules in wires with section ≤ 2,5mm²

The product is delivered with the terminals opened and ready to connect

Tightening torque on terminals	3,5...4 Nm 31...35 lb.in
Screws with a combined head	SLOT + PZ2
Multipolar assembly	▸FIG. 1
Fuse holders with fuse indicator	**NEON** 230...690V AC **LED** 12...24V DC 30...60V DC
Fuse holders with microswitch 5A - 250V Both versions delivered with 3 pre-insulated terminals (fast-on 2,8 x 0,5)	NC(Normally closed) NO(Normally Open) contacts 1. Fusing + pre-breaking + fuse link detection 2. Only fusion · Only detection of fuse link operation · Also as accessory mounted on standard fuse holders ▸FIG. 3
Special zone for sealing	Ø1,5 mm wire
Label holder for a better circuit identification	▸FIG. 2 Suitable size for label:25x10 mm
Accessory available to lock the fuse holder by a padlock	▸FIG. 4 (max. 3 padlocks of Ø 3mm)

Accessories

FIG. 1 | Multipolar assembly

Standard system by DF, 3 clips and 1 pin for each union between poles

480005	PINS FOR MULTIPOLE ASSEMBLY
485356	HANDLE TIES FOR MULTIPOLE ASSEMBLY
485357	TIES FOR MICROSWITCHES ASSEMBLY

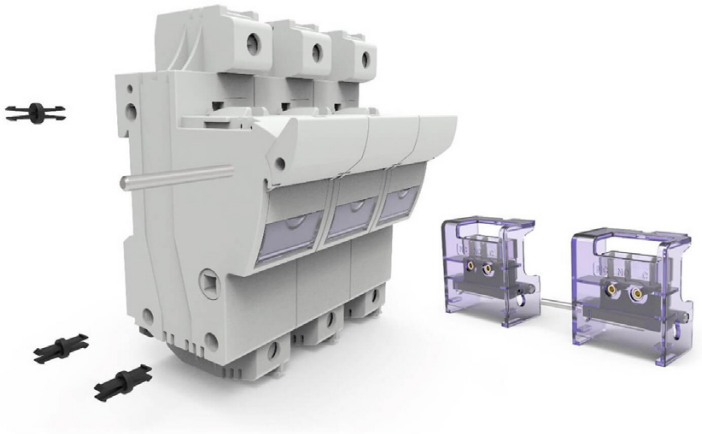
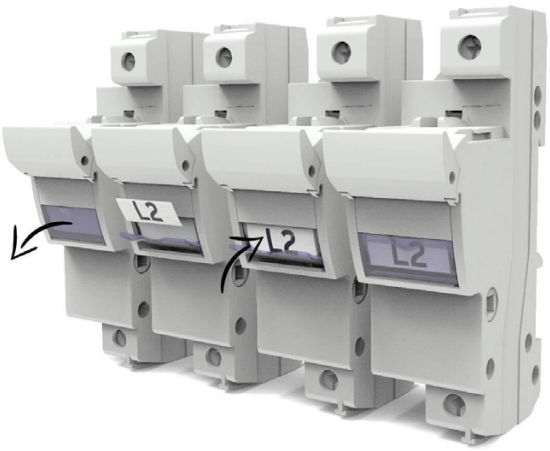
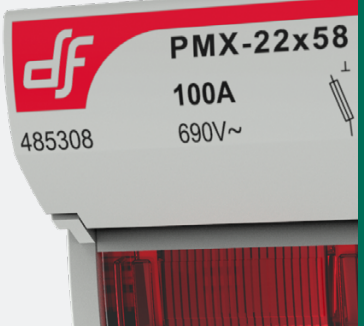


FIG. 2 | Identification by label

Open the label holder part with the fuse holder closed, put on the label and close it



Label measures **25x10mm**



Accessories

FIG. 3 | Microswitch mounting

Put on the microswitch on the guides, and push in horizontal movement to the final position.

* For Only Fusion accessory, first mount the lifter in his place.

485359	1P MICRO
485360	3P MICRO
485361	3P - DOUBLE MICRO
485362	1P EXTENSION
485363	3P EXTENSION

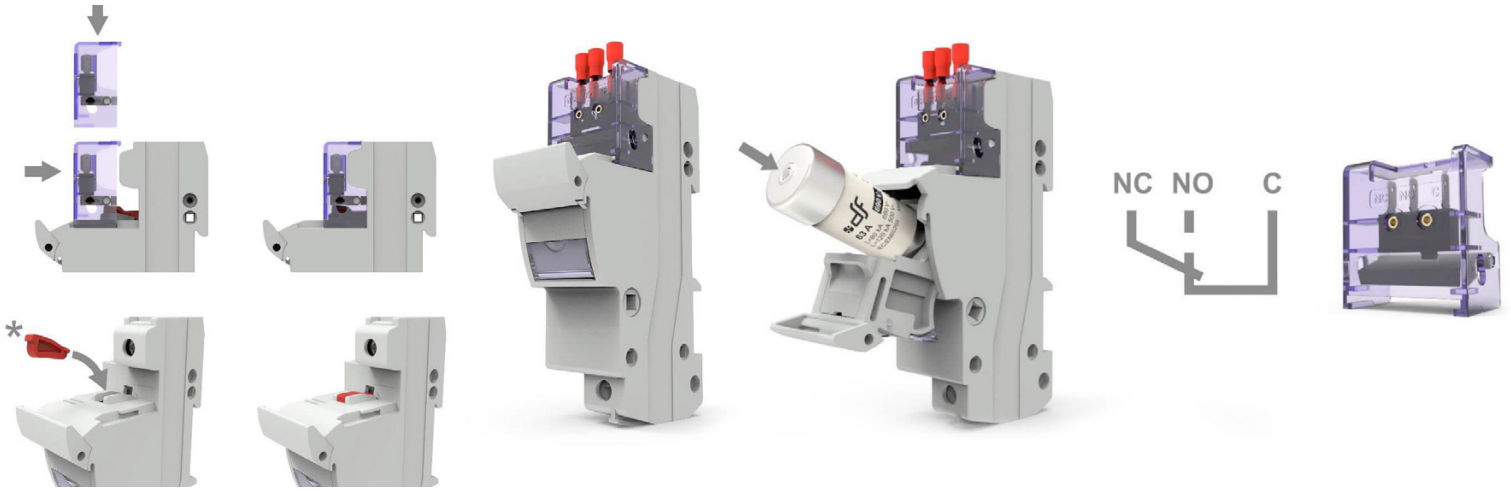
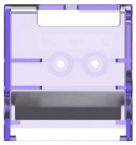


FIG. 3.1 | Extension microswitch accessory

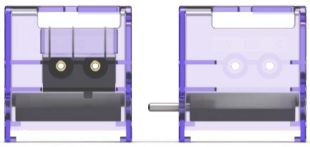
Number of multipolar assemblies allowed with extension accesory microswitch unipolar: **max 2**

485362	MICRO 1P EXTENSION



x2 max

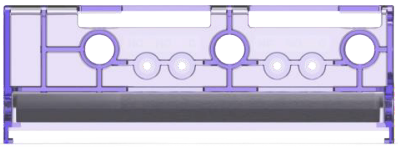
Accessory assembly



Microswitch — Extension accessory

Number of multipolar assemblies allowed with extension accesory microswitch tripolar: **max 1**

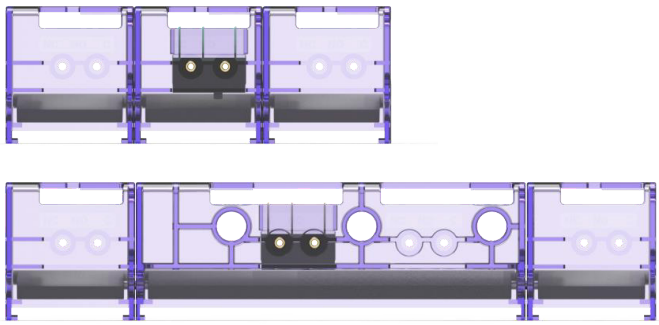
485363	MICRO 3P EXTENSION

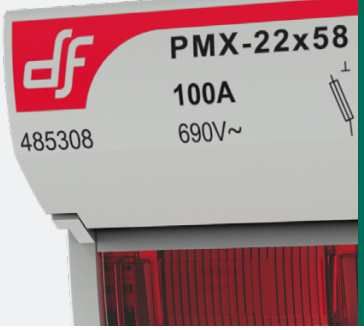


x1 max

2 Accessories assembly

Always one to each side of the microswitch





Accessories

FIG. 4 | Locking means a padlock

To avoid the operation and connection when the fuse holder is open, put on the accessory "Padlock support" sliding it for the guides, and covering the fuse link zone.
(Is possible the use with or without fuse link)

Introduce the padlock trough the symmetrical holes and close it.

485358 LOCK SUPPORT

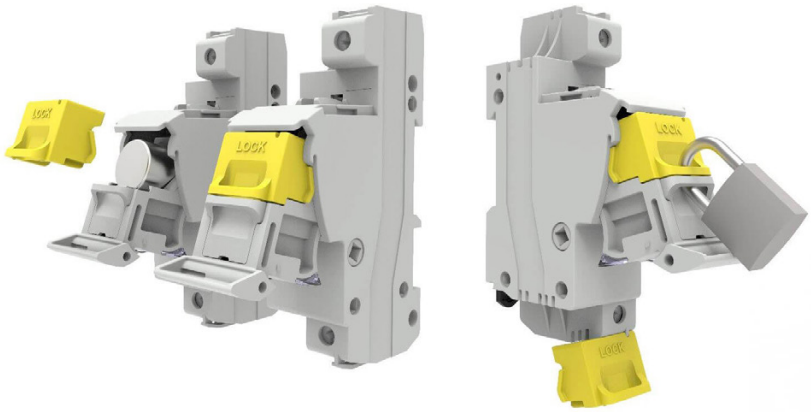


FIG. 6 | Screws protection accessory

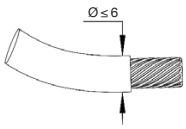
Protection accesory to avoid the screws manipulation and improve the protection degree

485371 SCREWS PROTECTION ACCESSORY

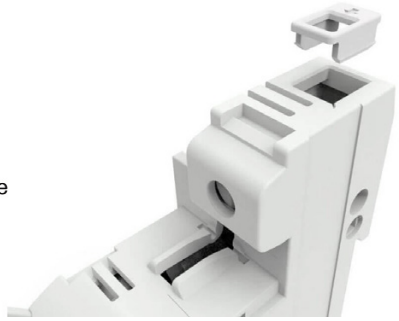
FIG. 5 | Special IP20 protection

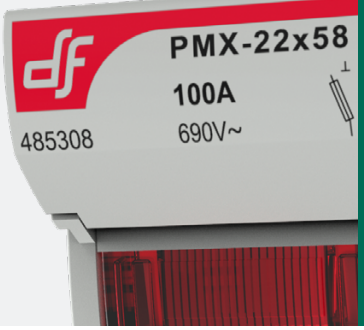
The accessory mut be positioned in the wire entries, if it's neccesary to achieve the IP20 degree of protection with thin wires

485366 SPECIAL IP20 PROTECTION ACCESSORY



To obtain an IP20 rating with cable protection of Ø ≤6mm, use the **special protection accessory**

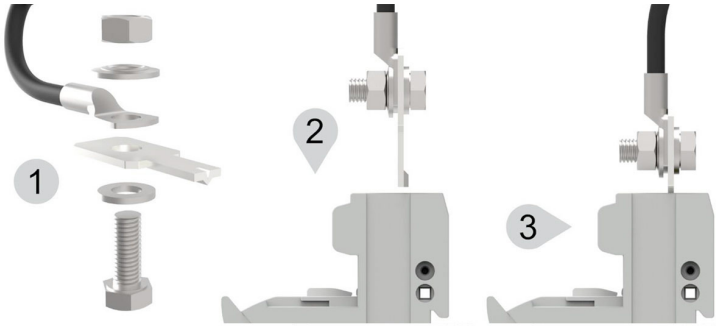




Accessories

FIG. 8 | Special screw connection accessory

485367	SPECIAL SCREW CONNECTION ACCESSORY



1
Mount the accessory in the wire (6Nm)

2
Wiring in the fuse holder

3
Apply tightening torque (2,5...3 Nm)

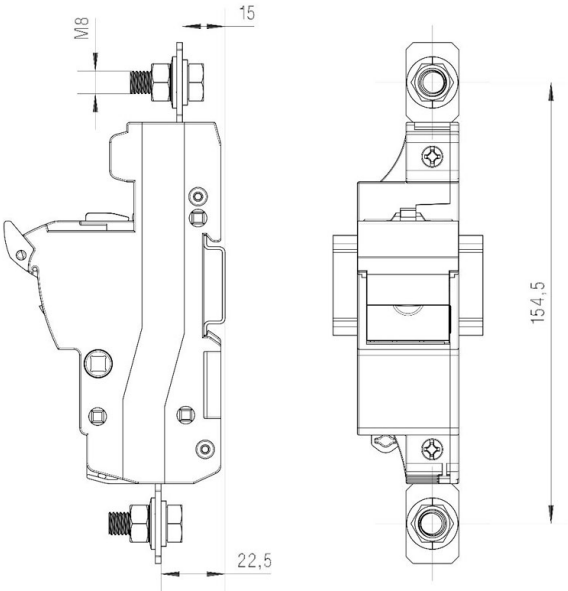
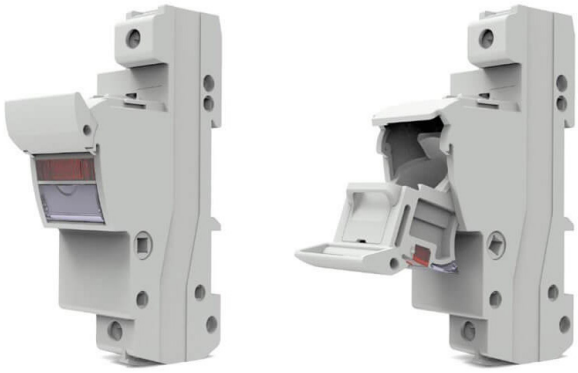


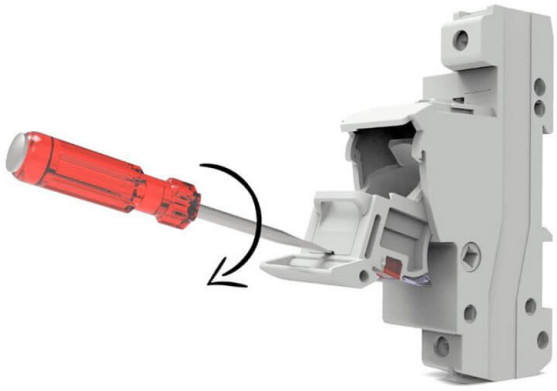
FIG. 9 | Fusing indicator replacement instructions

485364	FUSING NEON INDICATOR REPLACEMENT 120/690V AC
485365	FUSING INDICATOR REPLACEMENT 24 VDC

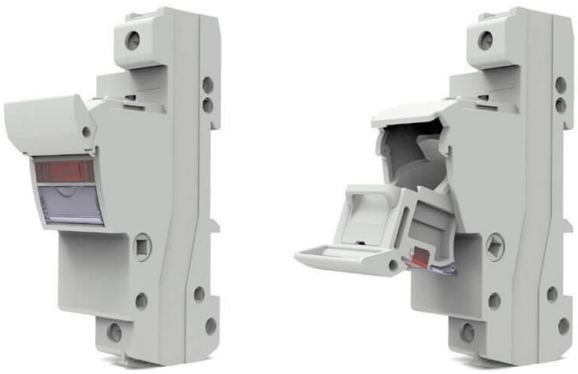
1
Open the fuse holder



2
Using a flat screwdriver, remove the cover with a slight rotation of the tool



3
Replace the fusing indicator. Enter the cover on the handle with a slight angle



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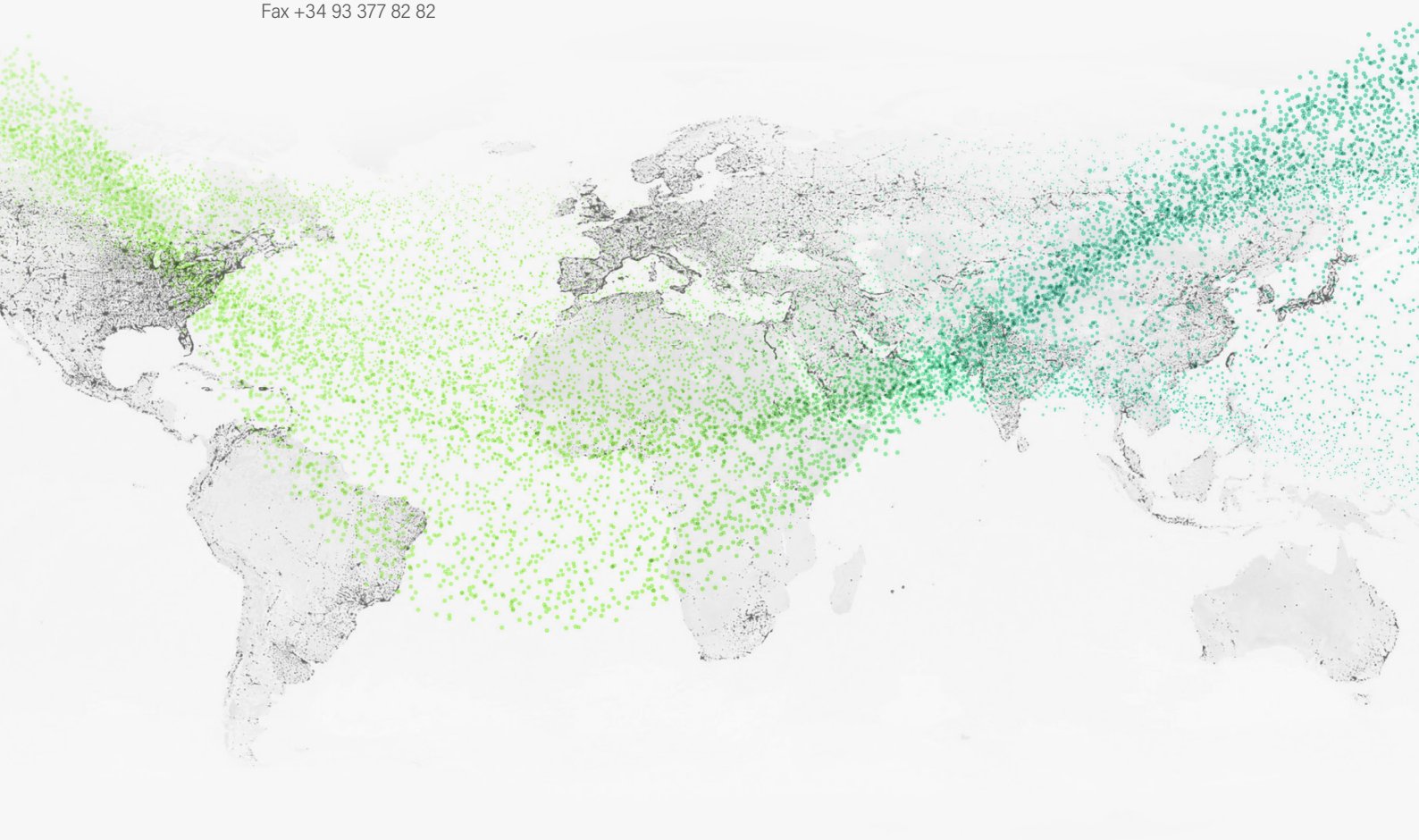

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To prevent electrical hazards, carry out the installation without voltage.

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