

# CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES



# PMX

industrial modular fuse holders  
for cylindrical fuse links

PMX

14x51



8x32

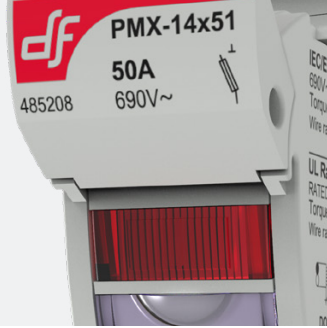
10x38

14x51

22x58

22x65

# PROTECTING THE WORLD



<b>RATED CURRENT</b>	50A
<b>RATED VOLTAGE</b>	690V AC 750V DC
<b>MAXIMUM POWER DISSIPATION</b>	6W
<b>PROTECTION INDEX</b>	IP20

<b>STANDARDS</b>	IEC/EN 60269-1 IEC/EN 60269-2 UL 4248-1 UL 486E CSA C22.2 N° 4248-1 CSA 22.2 N° 65
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## Industrial modular fuse holders for cylindrical fuse links

Modular fuse holder for cylindrical fuse link size 14x51 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.



Extended range of accessories is available.

UL certification (File E193529).

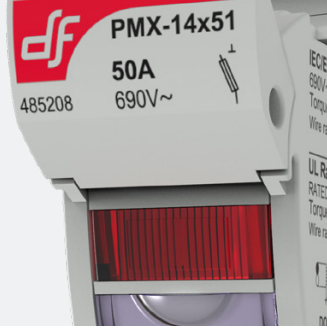


## Accessories

REFERENCE	DESCRIPTION	PACKING Uni /BOX
<b>480005</b>	PIN FOR MULTIPOLE ASSEMBLY	12/300
<b>485356</b>	HANDLE TIES FOR MULTIPOLE ASSEMBLY	12/300
<b>485357</b>	TIES FOR MICROSWITCH ASSEMBLY	12/300
<b>485258</b>	LOCK SUPPORT	5
<b>485259</b>	1P MICRO	5
<b>485260</b>	3P MICRO	2
<b>485261</b>	3P - DOUBLE MICRO	2
<b>485262</b>	MICRO 1P EXTENSION	5
<b>485263</b>	MICRO 3P EXTENSION	2
<b>485264</b>	FUSING INDICATOR REPLACEMENT 120/690V AC	3
<b>485265</b>	FUSING INDICATOR REPLACEMENT 24V DC	3
<b>485266</b>	SPECIAL IP20 PROTECTION ACCESSORY	12
<b>485656</b>	SCREWS PROTECTION ACCESSORY	20
<b>485271</b>	SPECIAL SCREW CONNECTION ACCESSORY	12
<b>485272</b>	PRE-BREAKING MODULE	6/90

## Range

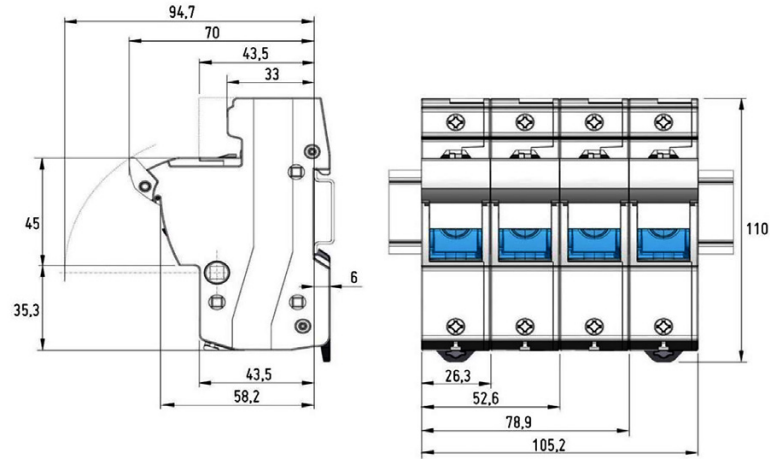
U <sub>n</sub>	REFERENCE		POLES	MODULES	PACKING Uni /BOX
	WITHOUT INDICATOR	WITH INDICATOR			
690V AC 750V DC	<b>485201</b> c	<b>485208</b> c	1P	1,5	6/90
	<b>485202</b> c	-	N	1,5	6/90
	<b>485203</b> c	<b>485209</b> c	1P + N	3	3/45
	<b>485204</b> c	<b>485210</b> c	2P	3	3/45
	<b>485205</b> c	<b>485211</b> c	3P	4,5	2/30
	<b>485206</b> c	<b>485212</b> c	3P + N	6	1/18
	<b>485207</b> c	<b>485213</b> c	4P	6	1/18
24V DC	-	<b>485214</b> c	1P	1,5	6/90
	-	<b>485215</b> c	1P + N	3	3/45
	-	<b>485216</b> c	2P	3	3/45
690V AC 750V DC	WITH MICROSWITCH				
	PREBREAKING FUSING - PRESENCE	ONLY FUSION			
	<b>485220</b> c	<b>485226</b> c	1P	1,5	6/90
	<b>485221</b> c	<b>485227</b> c	1P + N	3	3/45
	<b>485222</b> c	<b>485228</b> c	2P	3	3/45
	<b>485223</b> c	<b>485229</b> c	3P	4,5	2/30
	<b>485224</b> c	<b>485230</b> c	3P + N	6	1/18
<b>485225</b> c	<b>485231</b> c	4P	6	1/18	



## Technical data

Rated current	50A	
Rated voltage	690V AC   750V DC IEC 750V AC UL-CSA	
Rated power dissipation	5W	
Maximum power dissipation	6W	
Power dissipation per pole	80% $I_n > 0,52W$ 100% $I_n > 0,88W$	
Utilization category as per EN 60947-3	AC-22B 500V 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	$I_n$
	5 ... 6	0,8 x $I_n$
	7 ... 9	0,7 x $I_n$
	≥ 10	0,6 x $I_n$
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

## Dimensions



## Weight

	STANDARD   WITH INDICATOR	WITH MICROSWITCH
1P	101gr	107gr
N	110gr	-
1P + N	211gr	217gr
2P	202gr	214gr
3P	303gr	321gr
3P + N	413gr	431gr
4P	404gr	428gr

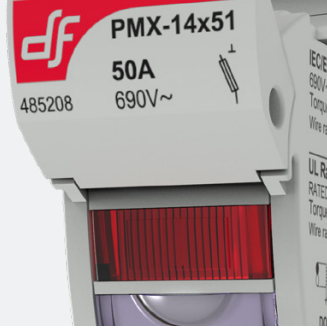
Weight without packing

## Standards

IEC/EN 60269-1  
IEC/EN 60269-2  
UL4248-1 Fuse holders  
UL486E Wiring terminals  
CSA C22.2 N° 4248-1 Fuse holder assemblies  
CSA 22.2 N° 65 Wire connectors

## Certifications





## Application characteristics

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

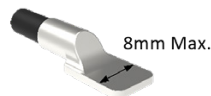
**Connecting wire**  
Copper wires only

WIRES	METRIC	AWG	WIRING
1	1,5...35mm <sup>2</sup> Solid	8....16 AWG Solid	<p>14mm ±1</p>
	1,5...25mm <sup>2</sup> Stranded	6....16 AWG Stranded	
2 Same cross section and type	1,5...16mm <sup>2</sup> Solid	6....16 AWG Solid / Stranded	
	1,5...10mm <sup>2</sup> Stranded		

### Wire-end terminals

The use of wire-end terminals may allow to increase the connecting 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 ≤ 2,5mm<sup>2</sup>



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

## Accessories

FIG. 1 | Multipolar assembly

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

- 480005** PINS FOR MULTIPOLE ASSE
- 485356** HANDLE TIES FOR MULTIPOLE ASSEMBLY
- 485357** TIES FOR MICROSWITCHES ASSEMBLY

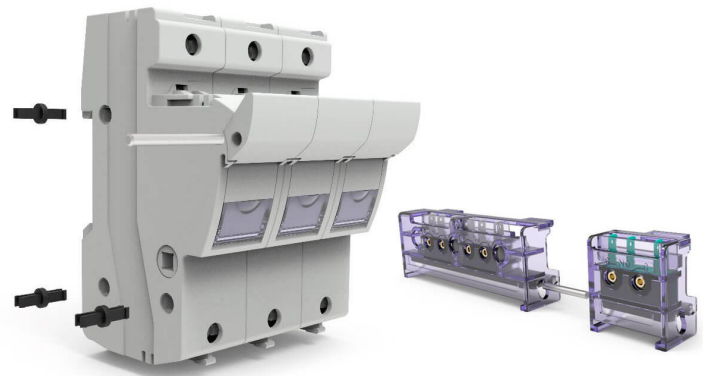
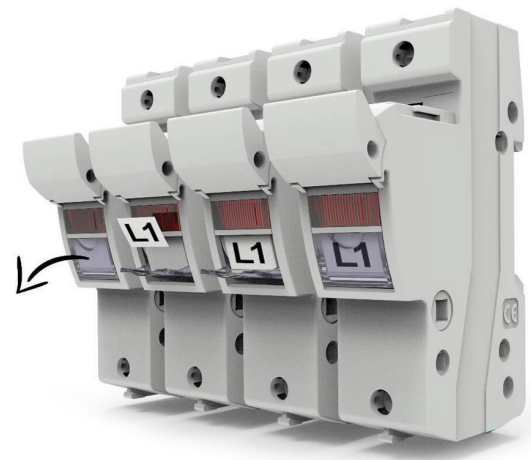


FIG. 2 | Identification by label

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



Label measures **16x10mm**

**Tightening torque on terminals** 2,5...3 Nm  
22...27 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

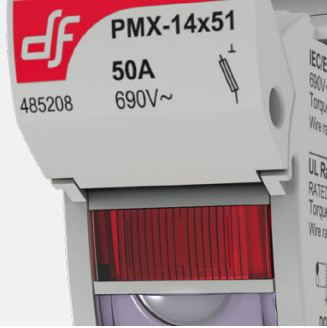
**Fuse holders with microswitch 5A - 250V**  
Both versions delivered with 3 pre-insulated terminals (fast-on 2,8 x 0,5)  
NC(Normally closed) NO(Normally Open) contacts  
1. Fusing + pre-breaking + fuse link detection  
2. Only fusion  
- Only detection of fuse link operation  
- Also as accessory mounted 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: 16x10 mm

**Accessory available to lock the fuse holder by a padlock** ► FIG. 4  
(max. 3 padlocks of Ø 3mm)

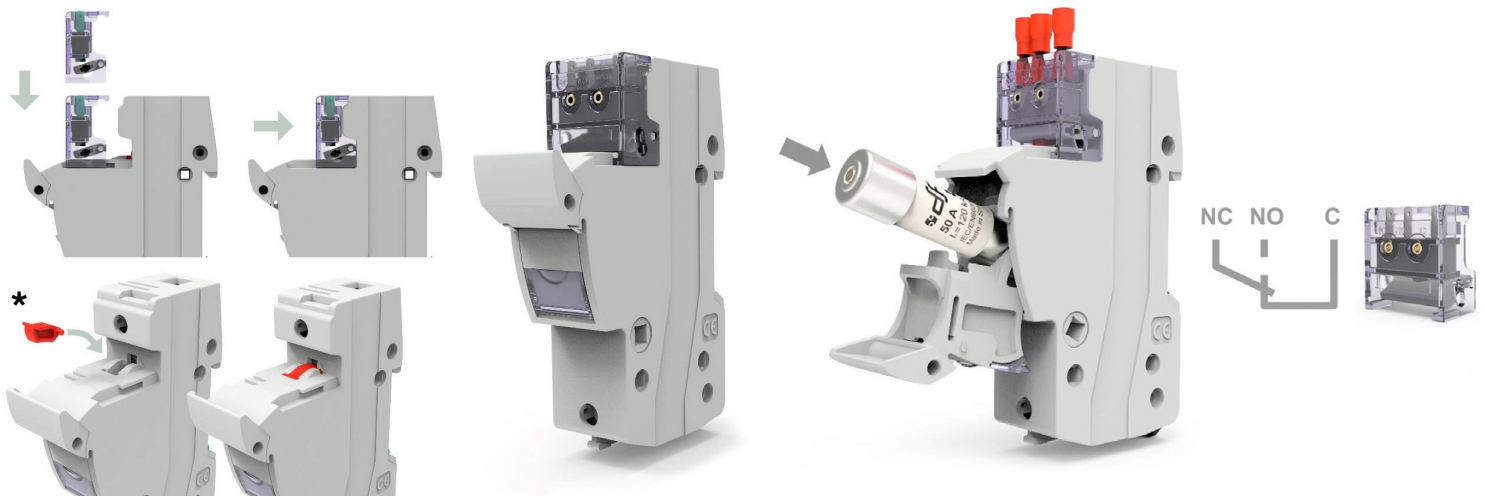


## Accessories

**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.



**FIG. 3.1 | Extension microswitch accessory**

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

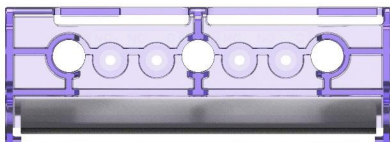
**485262** MICRO 1P EXTENSION



**x2 max**

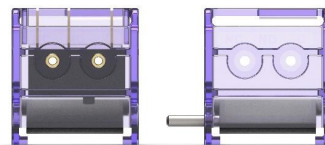
Number of multipolar assemblies allowed with extension accessory microswitch tripolar: **max 1**

**485263** MICRO 3P EXTENSION



**x1 max**

### Accessory assembly

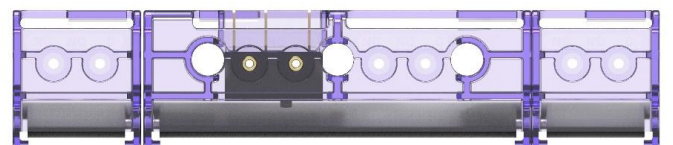
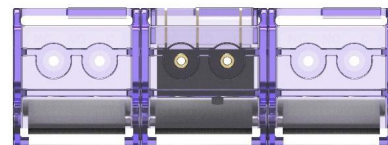


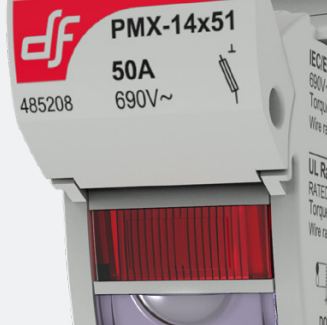
Microswitch

Extension accessory

### 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.  
*(It's possible the use with or without fuse link)*

Introduce the padlock trough the symmetrical holes and close it.

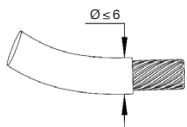
**485258** LOCK SUPPORT



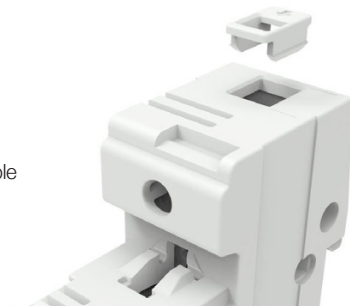
**FIG. 5 | Special IP20 protection**

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

**485266** SPECIAL IP20 PROTECTION ACCESSORY



To obtain an IP20 rating with cable protection of  $\varnothing \leq 6\text{mm}$ , use the special protection accessory

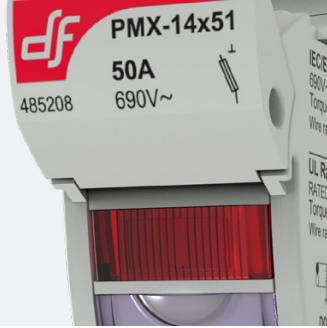


**FIG. 6 | Screws protection accessory**

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

**485656** SCREWS PROTECTION ACCESSORY

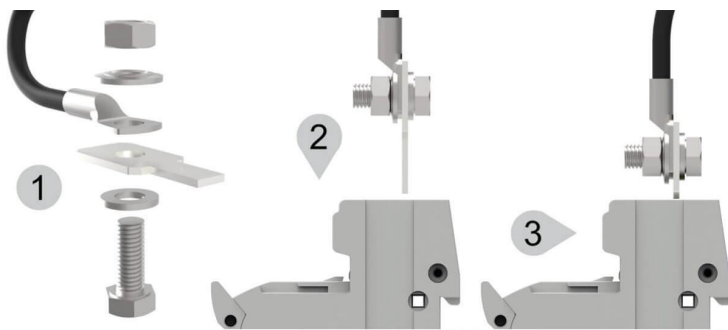




## Accessories

FIG. 8 | Special screw connection accessory

**485271** 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)

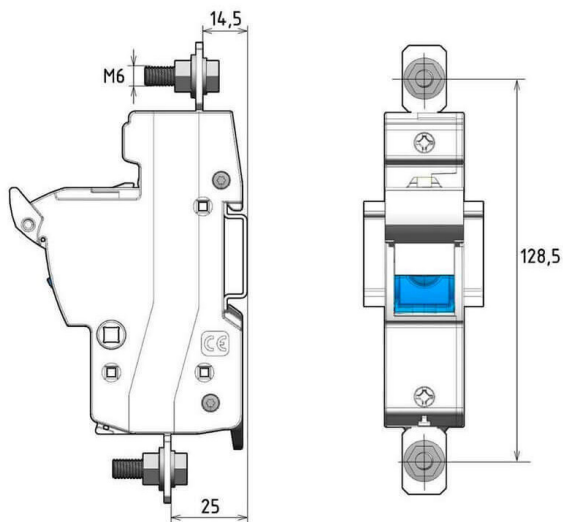


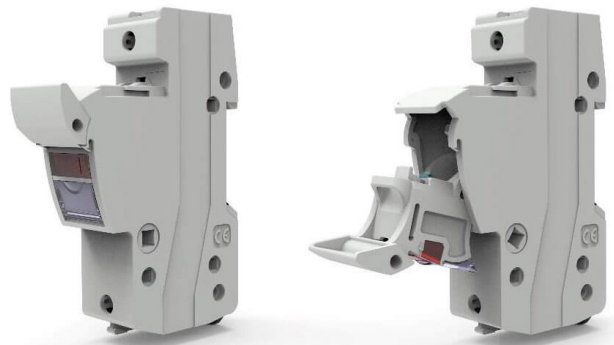
FIG. 9 | Fusing indicator replacement instructions

**485264** FUSING NEON INDICATOR REPLACEMENT 120/690V AC

**485265** FUSING INDICATOR REPLACEMENT 24 VDC

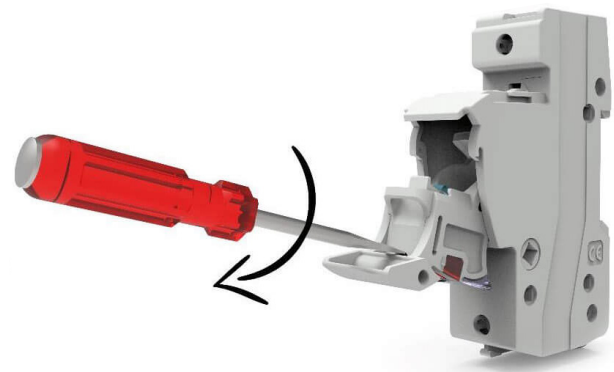
1

Open the fuse holder



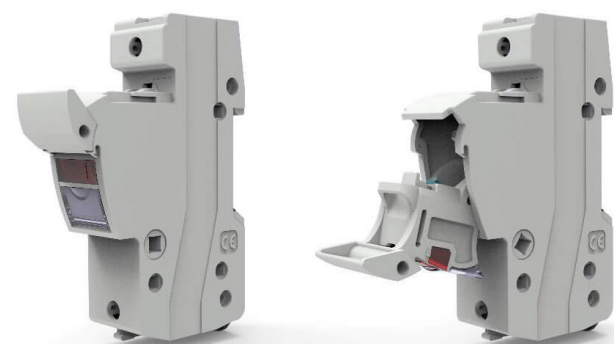
2

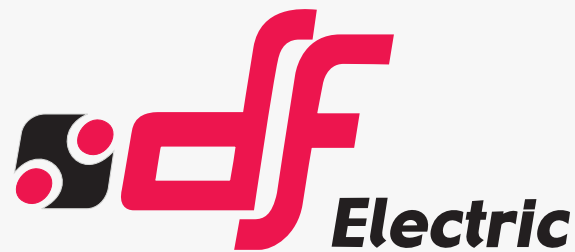
Using a flat screwdriver, remove the  
cover with a slight rotation of the tool



3

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





# PROTECTING THE WORLD

## HEAD OFFICE AND FACTORY

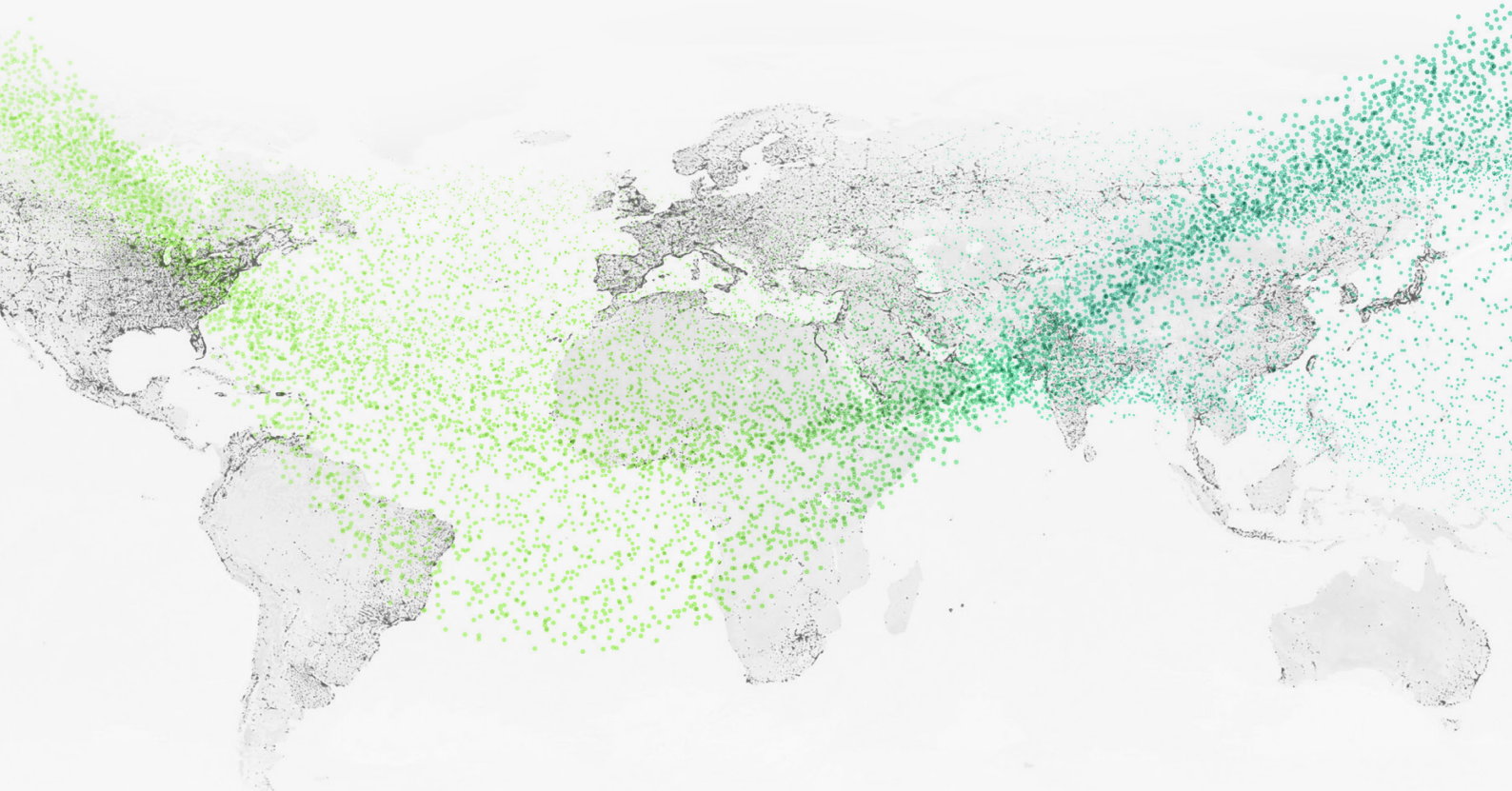
SILICI, 67-69  
08940 CORNELLA DE LLOBREGAT  
BARCELONA · SPAIN  
Tel. +34 93 377 85 85  
Fax +34 93 377 82 82

## INTERNATIONAL SALES

Tel. +34 93 475 08 64  
Fax +34 93 480 07 75  
export@dfelectric.es

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