3850 IONSTORM STATIC ELIMINATORS

The 3850 Ionstorm system uses advanced pulsed DC ionisation technology for static neutralisation at long distances without air assistance.

Powered by the 3700-SC Ionstorm Controller, Ionstorm Static Eliminator bars are available in two versions:

- 3850-SC (Standard) with emitters at 125 mm pitch.
- 3850 HP-SC (High Power) with emitters at 75 mm pitch.

PERFORMANCE

- 15 kV of ionising power.
- Effective range from 200 mm to over 1000 mm.

ESSENTIAL QUALITIES

- Adjustable settings on the Controller allow optimisation of performance for range, polarity and power.
- Replaceable tungsten emitters guarantee an unlimited life.
- Shockless operation.
- Unique double wall separation of negative and positive emitters to prevent surface conduction.

CONNECTIVITY AND CONTROL

- LEDs on Controller give indication of operational status.
- Controller settings are adjustable and lockable.
- Duplicate remote signals for PLC or to power external lamps, relays.

APPLICATIONS

- Long-range applications where the customer can manually adjust the output to suit the requirements.
- The extra power of the 3850 HP-SC makes it suitable for most industrial applications. The 3850-SC is used in wide area neutralisation where the static charges are lower.



SPECIFICATION

Construction:
Rigid easy-clean PVC body. Replaceable long-life tungsten emitters in FR-ABS housing.

Output Voltage:
Adjustable 0 - 15 kV from the 3700-SC Ionstorm Controller.

Balance:
A balanced output can be set if the static charge varies. If the static charge is constant, the balance can be adjusted 80:20 in each polarity for even better performance.

Cable:
In a protective nylon conduit, 2 m standard. Up to 10 m can be specified provided that it is within maximum load. Screw connectors for fast connection to the 3700-SC Ionstorm Controller.

Remote Operation:
On/Off and Alarm via the 6-pin mini-DIN connector on the 3700-SC Ionstorm Controller.

Electrical Input:
115/230 V AC, 50/60 Hz. 24 V DC.

Environmental:
60 °C max. 70 % rH non-condensing max.

Options:
Bars joined in series.
3850-SC Connector Box (2:1 and 4:1 options) allows multiple bars to be powered from one 3700-SC Ionstorm Controller. See separate Datasheet.

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HOW IT WORKS

Powered by a 3700-SC Ionstorm Controller, the 3850 Ionstorm Static Eliminator emits positive and negative ions from dedicated emitters. The pulsing action propels the ions towards the object to be neutralised.

A slow frequency can be set for distances up to 1000 mm, and a faster frequency for closer distances, e.g. 300 mm.

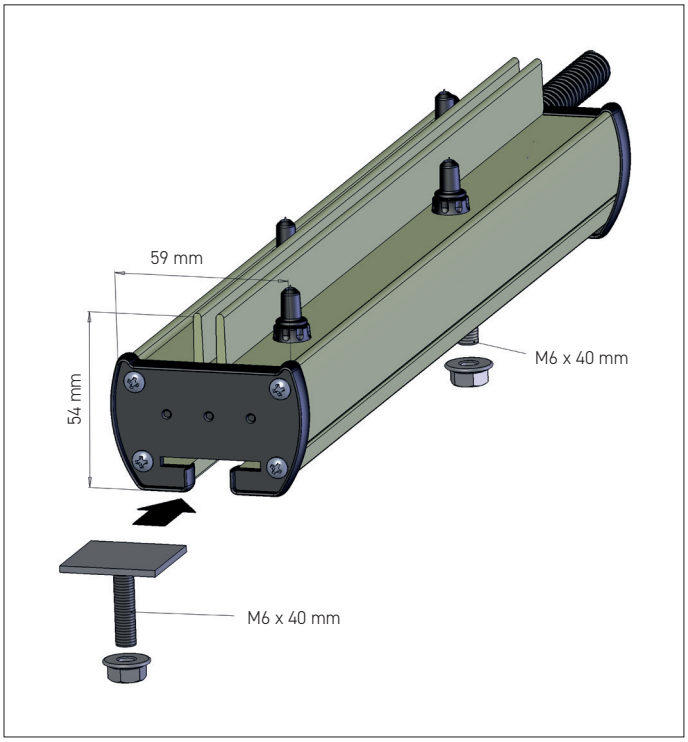
The ionised air supplies ions to neutralise the charge in the object. The higher the static charge, the more ions are attracted by the object.

3850-SC

Standard bar with emitters at 125 mm pitch. Lengths in multiples of 250 mm up to 5000 mm: 250 mm, 500 mm, 750 mm, etc.

3850 HP-SC

Higher performance version with emitters at 75 mm pitch. Better than the standard 3850-SC at all ranges up to 750 mm. Available in lengths of 175 mm, 300 mm, 400 mm, 500 mm and then in multiples of 150 mm up to 5000 mm: 650 mm, 800 mm, 950 mm, etc.



DIMENSIONS AND CONSTRUCTION

Dimensions: 59 mm x 54 mm (WxH). Maximum length of 5000 mm in one rigid bar. Can be joined together to make bars up to 10000 mm.

Mounting: Adjustable M6 x 40 mm 'T' fixings in slot.

Maximum Load per 3700-SC Controller: 3850-SC - 15 m of bar and cable. **3850 HP-SC** - 12 m of bar and cable.

