EX-1250 EX STATIC ELIMINATOR

The EX-1250 bar is a high performance static eliminator with ATEX certification for use in hazardous areas.

The EX-1250 is part of the Fraser 1250 family of static eliminators, which offer market-leading reliability and performance.

PERFORMANCE

- 6 kV of ionising power.
- Resistively coupled emitters for maximum safety with optimal ionisation efficiency.

ESSENTIAL QUALITIES

- All live parts are epoxy encapsulated for protection, reliability and a long life.
- Unique stay-sharp etched emitters for long life of high performance.
- Shockproof operation and robust construction.

CONNECTIVITY AND CONTROL

- Choice of Fraser power units, including local and remote monitoring of operational status and alarm signal.
- Power units capable of driving 30 m of combined bar and cable, typically fours bars on a typical gravure press.

APPLICATIONS AND ATEX CERTIFICATION

- Position 20 - 150 mm from material. Best performance within 50 mm.
- The European ATEX Certification is recognised in most areas of the world.
- The EX-1250's wide certification covers most industrial coating, laminating and gravure printing processes:
  - Gas: Gas Group IIB (Ethylene and all the usual solvents in coating etc), Zones I and 2.
  - Dust: Flammable Dust Group IIIC , Zones 21 and 22.



SPECIFICATION

Construction:
Anodised aluminium, epoxy resin, ABS and hardened emitters.

Cable:
3 m of cable in protective nylon conduit is standard, longer lengths can be specified at time of order. Please check that 3 m is sufficient to reach the Power Unit outside of the EX Zone.

Safety:
High resistance in emitters for shockless operation.

Power Unit:
EXHP or HP-ION (Model 3111), must be positioned outside of the hazardous area.

Environmental:
40 °C maximum temperature. 70 % rH non-condensing max. Location should be dry and oil-free.

Certification:
CE. ATEX EX certified for use in hazardous areas.

Options:
90° cable exit.
Metallic protective cable conduit.
Air Knife mounted - see 5000/5100 and 5500.
EXHP Power Unit - remote monitoring of operational condition/alarm. An LED can be fitted to show that high voltage is functioning.
HP-ION (Model 3111) Power Unit - remote function monitoring to show status of high voltage and whether bars require cleaning.

FRASER Anti-Static Techniques

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HOW IT WORKS

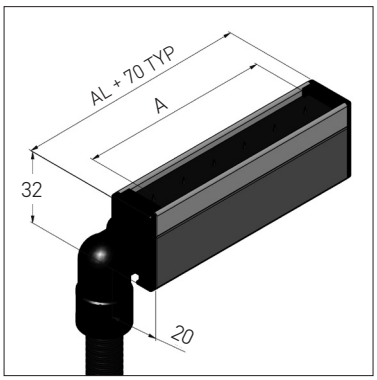
The EX-1250 is powered by the EXHP or HP-ION (Model 3111) Power Units, high load 6 kV power units with remote monitoring options. Up to four bars may be powered from each Power Unit. Please see separate Datasheets for more details.

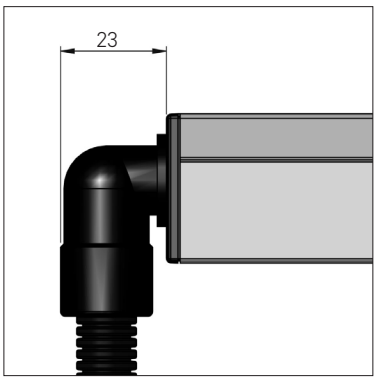
DIMENSIONS AND CONSTRUCTION

Available lengths: Any length from 120 mm to 6000 mm. Active length (AL) is 70 mm less than overall length.

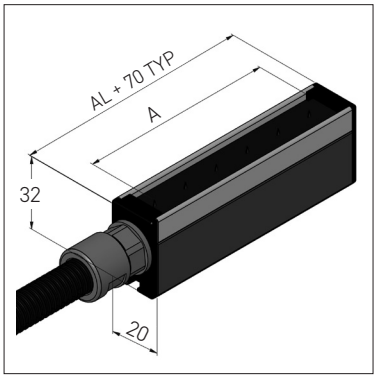
Mounting: M4 x 20 mm hexagon studs slide in slot for mounting.

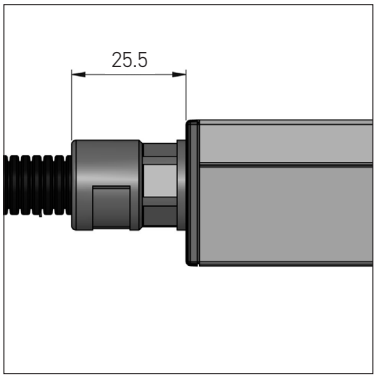
EX1250 with 90° elbow connector





EX1250 with straight connector





All dimensions in mm.

ATEX CERTIFICATION

The details of the ATEX certification for the EX-1250 Bar are:

EX-1250 Static Eliminator Bar YYYY/NNNN
Ex II 2G IIB T6 Ex II 2D IIIC T85°C (-20°C≤Ta≤+40°C)
Baseefa 07ATEX0157X
CE 1180
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Explanation

II	Industrial equipments.
2	Equipment category: high protection. Suitable for zones 1 and 2.
G	Equipment used in potentially explosive atmospheres caused by presence of explosive gas, vapour and mist.
IIB	Gas Group. Group IIB covers Ethylene, in addition to the IIA Gases including Acetone, Benzene, Butane, Ethanol, Methane, Propane, Toluene and Xylene.
T6	(-20 °C ≤ Ta ≤ +40 °C) Temperature class. Maximum surface temperature T6 = 85 °C.

II	Surface equipments.
2	Equipment category: high protection. Suitable for zones 21 and 22.
D	Equipment used in potentially explosive atmospheres caused by presence of airborne particles (dust).
IIIC	Dust Group. This includes IIIA: Combustible flyings. IIIB: Non-conductive dust. IIIC: Conductive dust.
T85	Temperature class. Maximum surface temperature 85 °C.