

GENERATORS

7080 / 7081 GENERATOR BARS

The 7080 & 7081 Generator Bars provide a safe, controllable, reliable and cost-effective method of applying static charge for temporary adhesion in industry.

Fraser Static Generators provide improved productivity in a range of industrial applications including interleaving steel sheets, pinning plastic sheets and webs, bag making, wrapping machines and other areas of temporary adhesion.

- > The emitters are spaced at 10mm pitch for an even application of static charge, without the striping effect common with wider spaced emitters.
- > The 7080 Bar has emitters which are resistively coupled to the HV for safe, non-sparking performance.
- > Compact size with rigid construction. Available in lengths up to 3000mm.
- > Easy installation - with M8 x 60mm nylon studs sliding in the "T" slot at the base of the 7080 Bar.
- > Flexible cable in protective nylon conduit.
- > The only difference between 7080 & 7081 Bars is that;
 - 7080 - has connector for obsolete 7330 & 7324 Generators.
 - 7081 - has connector for current 30kV models (7333, 7360 & 73150 Generators).



Specification

Construction:	Extruded PVC with ABS endcaps, epoxy resin. "Stay sharp" alloy emitters at 10mm pitch.
Length:	Available from 60mm to 3000mm. Cross section: 45mm high x 20mm wide. Effective length is 70mm less than overall length.
Cable:	2m HT cable is standard. Max cable length 10m. Cable terminates in HV plug rated at 35kV. Protective nylon conduit on cable. Flexible conduit with bend radius of <25mm.
Conditions:	60°C maximum temperature. Maximum humidity 70%RH non-dewng. Must be kept dry and clean.
Safety:	100MOhm resistance for safe operation.

How it works:

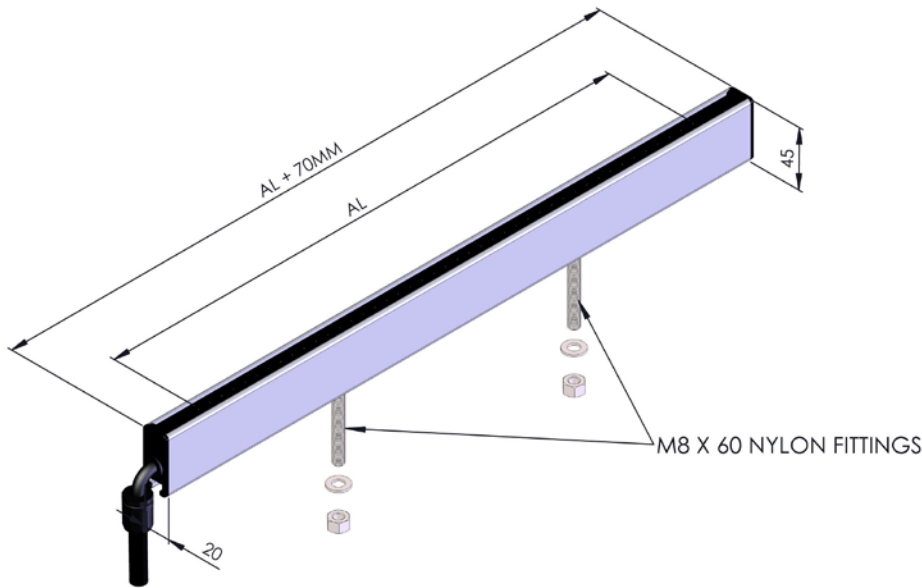
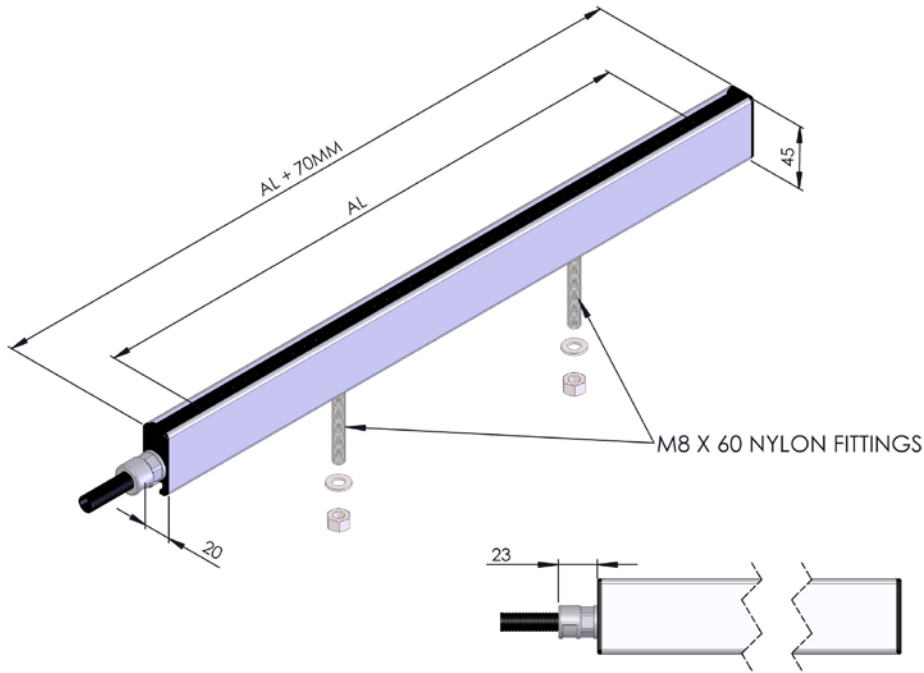
The system consists of a Static Generator and one or more Charging Bar. The Generator produces direct current up to 30kV. The 7080/7081 Bar emits this current in the form of an ion cloud.

Materials passing through this ion cloud become charged at the same polarity as the Generator on the side of the Bar, with a mirror image charge on the opposite side, produced by the

earth. The non-conductive barrier (i.e. the material) prevents these two charges coming together - this is what causes the adhesion.

If the barrier is a good non-conductor like plastic film the adhesion will be strong. If the material is less conductive, like paper, the adhesion will be weaker as more current will pass through the material.

Dimensions (mm)



Available in 5mm or 10mm pin pitch