NEOS 20 INTELLIGENT STATIC ELIMINATOR

The NEOS range of static eliminators is a major advance in industrial static control technology. NEOS intelligence monitors the static charge and reacts to it by emitting the quantity and polarity of ions for fastest neutralisation.

NEOS 20 is a long range static eliminator for distances between 150 mm and 800 mm.

PERFORMANCE

- 20 kV of ionising power.
- NEOS reactive intelligence sets new levels of static neutralisation performance.
- The NEOS 20 is part of Fraser's market leading family of longer range static eliminators.

ESSENTIAL QUALITIES

- Compact size with fully encapsulated electronics.
- Replaceable tungsten emitters guarantee a long life.
- Shockless, 24 V DC operation.
- 100 % coverage. Effective length > overall length.

CONNECTIVITY AND CONTROL

- NEOS intelligence has two automatic and three manual settings, giving the operator the ability to optimise performance for actual conditions.
- Local LED indication of status of bar and whether it needs cleaning. Duplicate signals for PLC or to power external lamps, relays.
- Remote on/off switching and standby mode.

APPLICATIONS

- NEOS 20 is Fraser's best-selling long range static eliminator. It is used on winders, unwinders and many other long range and wide area applications.



SPECIFICATION

Construction:
Reinforced FR-ABS industrial grade extrusion and endcap, fully encapsulated with epoxy resin. Tungsten emitters.

Output Voltage:
20 kV supply integrated into bar.

Remote Monitor / Local Status Indication:
2 signals available: 'HV OK' and 'Attention'. Both outputs are IEC 61131-2 Type 1, Type 2 and Type 3 compatible. The outputs can also be used for direct driving of external lamps or relays. Bi-colour LED on endcap for local status indication, including 'Clean Me'.

Electrical Input:
24 V DC (21-28 V), maximum current required 2.0 A. M12 5-pin connector.

Environmental:
0 - 55 °C, 70 % rH non-condensing max. IP67.

Certification:
CE, CB and UL.

Options:
100 – 250 V AC-DC 24 V Power Supply (Part No: NEOS-PSU).*

* Do not use ANY other standard power supplies with this product. Third party power supplies WILL cause damage and void warranty.

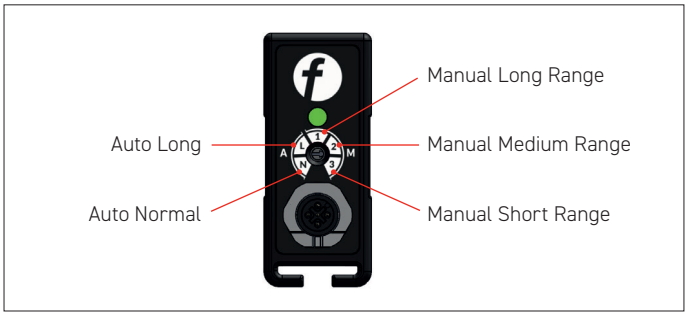
FRASER Anti-Static Techniques

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NEOS INTELLIGENCE

The rotary switch at the cable end of the bar gives the operator full control over the NEOS bar. The default factory setting is AUTO NORMAL for intelligent operation within the working ranges of 150 - 750 mm.

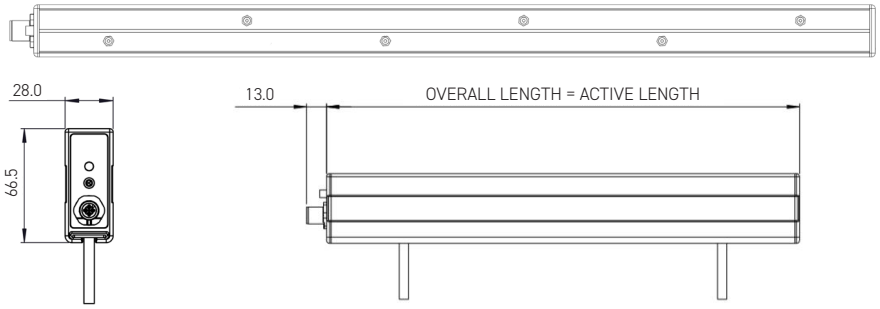
AUTO LONG may be chosen if the operating distance is always toward the long end of the range. The customer may also select to turn off the intelligent modes and run the bar as a standard static eliminator. There are three manual settings for **Short, Medium** and **Long Range** Operation.

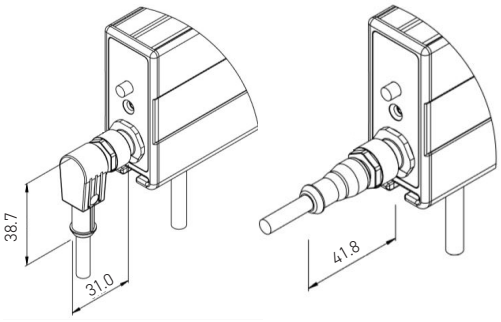


DIMENSIONS AND CONSTRUCTION

Dimensions: 28.0 mm x 66.5 mm (WxH). Available lengths: minimum 450 mm, then steps of 150 mm to 4950 mm.

Weight: 2.6 kg/m.





Note: Overall length = order length + 6 mm (including endcaps).

MOUNTING

Each 'T' fixing has two M6 x 40 mm studs and flange nuts.

Two 'T' fixings are supplied for bars up to 1000 mm, plus 1 extra for every additional 500 mm.

Other stud lengths are available, contact the manufacturer for details.

The 'T' fixings slide into the slot in the bottom of the bar.



ACCESSORIES AND SPARES

Description	Part No.
3m cable with 180° connector	81193
5m cable with 180° connector	81194
7.5m cable with 180° connector	81195
10m cable with 180° connector	81196
Additional Mounting Set	34208

Description	Part No.
3m cable with 90° connector	81199
5m cable with 90° connector	81200
7.5m cable with 90° connector	81201
10m cable with 90° connector	81202
Universal AC-DC 24 V Power Supply*	NEOS-PSU

24 V Cables must be ordered separately. They have standard M12 5-pin female connectors.