

# X-12 INTELLIGENT STATIC ELIMINATOR

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

X-12 is available in 2 versions:

- X-12F should be mounted within 100 mm of the charged material. It replaces the NEOS 12F the most powerful short range static eliminator available.
- X-12L is an important part of Fraser's market-leading family of longer range static eliminators. It is for distances up to 600 mm.

## PERFORMANCE

- 12 kV of ionising power from 24 V DC input.
- X-SERIES reactive intelligence sets new levels of static neutralisation performance.

## ESSENTIAL QUALITIES

- Compact size with fully encapsulated electronics.
- Shockless, tungsten emitters guarantee a long life.
- 100 % coverage: overall length = effective length.

## CONNECTIVITY AND CONTROL

- X-SERIES intelligence has three 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

- X-12 bars can be used in countless short range and medium range applications.



## SPECIFICATION

### Construction:

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

### Output Voltage:

±12 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 LEDs on endcap for local status indication, including 'Clean Me'.

### Electrical Input:

24 V DC (21-28 V), maximum current required 1.5 A. M12 5-pin connector.

### Environmental:

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

### Certification:

CE and CB.

### 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.

**X-SERIES INTELLIGENCE & LED SIGNALLING**

The two push-button switches at the cable end of the bar give the operator full control over the X-12 bar. The right hand switch is a distance control with 3 options whilst the left hand switch switches the intelligence on and off.

The three bi-colour LEDs indicate the bar status, including the operation mode, need for cleaning and the polarity of charge on the target.

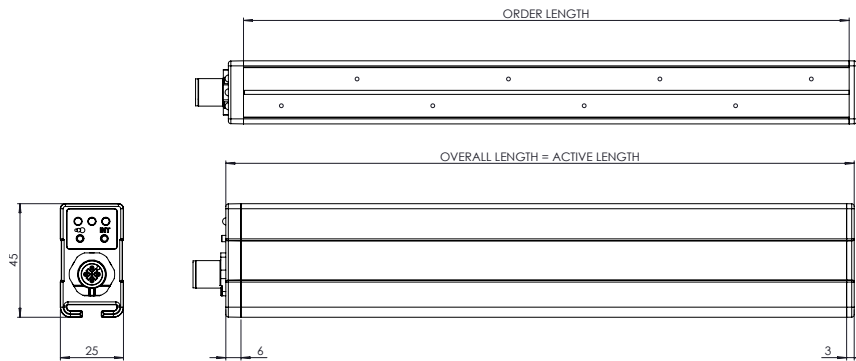
Standard M12 5-Pin connector is backwards compatible with NEOS installations.



**DIMENSIONS AND CONSTRUCTION**

**Dimensions:** 25 mm x 45.0 mm (WxH). **Weight:** 1.5 kg/m.

Available lengths: X-12F - 300 mm, then steps of 60 mm to 4980 mm. X-12L - 360 mm, then steps of 120 mm to 4920 mm.



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

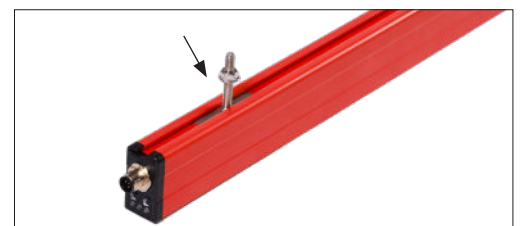
**MOUNTING**

Each 'T' fixing has one M6 x 40 mm stud and flange nut.

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        | 341210   |

| 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.