

# ANTI-STATIC BARS

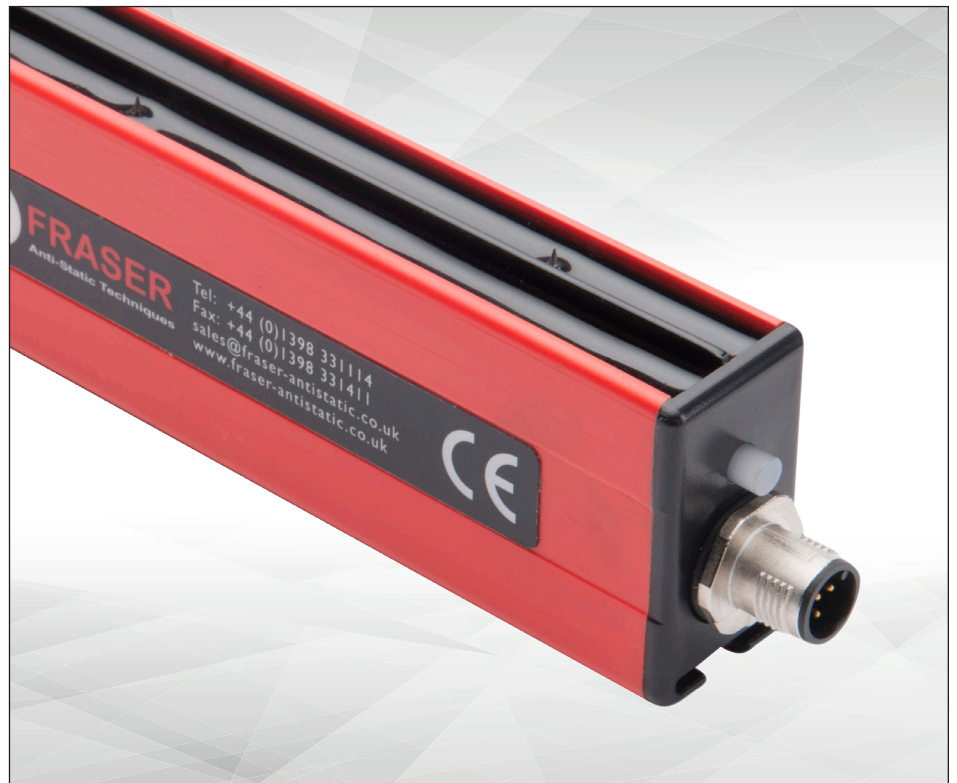
# NEOS 12 INTELLIGENT IONISING BARS

The NEOS range of static eliminators is a major advance in industrial static control technology. NEOS intelligence monitors and reacts to the static charge by emitting the quantity and polarity of ions to neutralise it. The combination of NEOS intelligence with intense ion generation creates static eliminators for the most demanding applications.

**NEOS 12** is available in 2 versions: **NEOS 12F** is designed to be mounted within 100 mm of the product. It is the most powerful short range static eliminator available.

**NEOS 12L** is a medium range static eliminator for distances up to 600 mm. For longer ranges see also **NEOS 20** and **NEOS 30**.

- > Shockless, resistively coupled emitters made in tungsten for long life.
- > NEOS Intelligence has two automatic and three manual settings to give the operator complete control. See page 2.
- > Remote and local monitoring of operation and "Clean Me" function.
- > LED status indication:
  - Green = OK
  - Red = Fault
  - Green and Red Flash = Clean Me, attention needed.
- > 100% coverage. Effective length = Overall length. No dead zone.
- > 24 V DC supply, M12 5-pin connector.



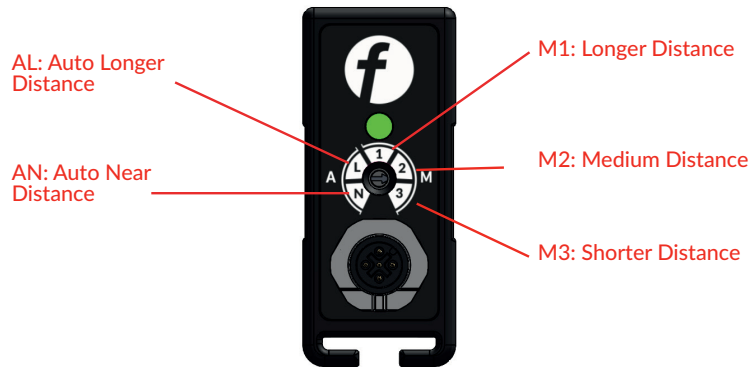
## Specification

<b>Size:</b>	NEOS 12F: min length 300 mm then steps of 60 mm to 4.98 m. NEOS 12L: min length 360 mm then steps of 120 mm to 4.92 m.
<b>Electrical Supply:</b>	24 V DC (21-27 V), maximum current required 1 A M12 5-pin connector.
<b>Remote Monitor:</b>	2 signals available: "HV OK" and "Attention" can be used to drive external loads or interface to systems (lamp, relay, PLC as required).
<b>High Voltage Supply:</b>	12 kV supply integrated into Bar.
<b>Construction:</b>	Reinforced FR-ABS Industrial grade extrusion and end cap, fully encapsulated with epoxy resin.
<b>Protection Classification:</b>	IP67. Fully sealed.
<b>Environment:</b>	-10 to 55°C, 70% RH non-condensing.
<b>Weight:</b>	1.5 kg/m.
<b>Certifications:</b>	CE. UL & CB

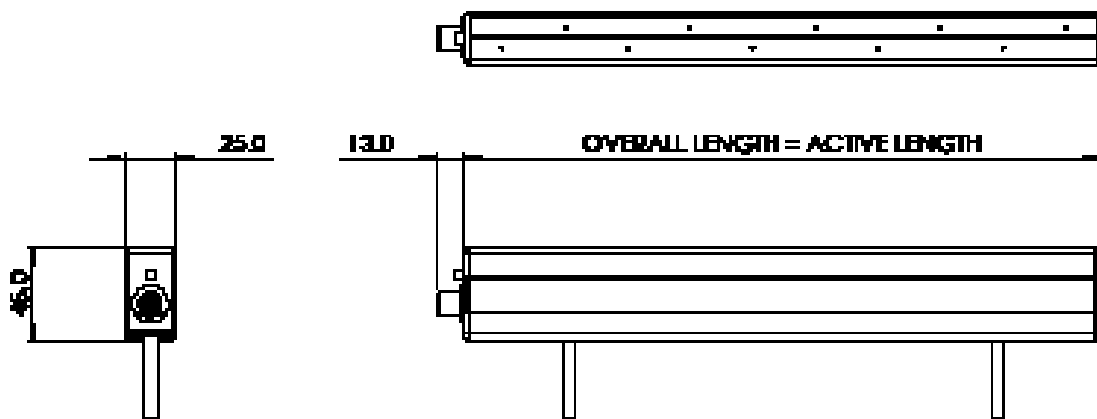
## NEOS Intelligence

The rotary switch at the non-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 30 - 100 mm for the F model and 100 - 600 mm for the L model.

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.



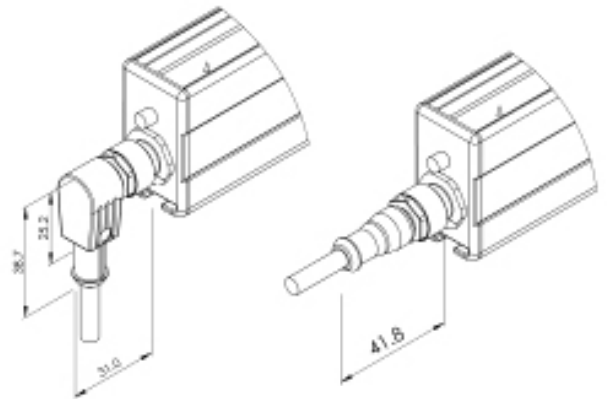
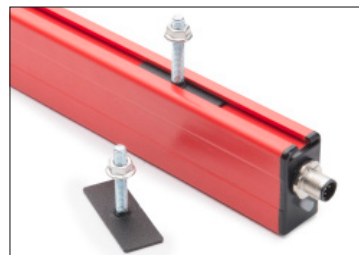
## Dimensions - NEOS 12



\* note - overall length = order length + 6 mm (including end caps)

## Mounting

'T' M6 x 40 mm stud and flange nut. Two fixing slides for bars up to 1 m, plus one extra for every additional 500 mm.



## Accessories/Spares

Description	Part No.	Description	Part No.
3m cable with 180° connector	81193	3m cable with 90° connector	81199
5m cable with 180° connector	81194	5m cable with 90° connector	81200
7.5m cable with 180° connector	81195	7.5m cable with 90° connector	81201
10m cable with 180° connector	81196	10m cable with 90° connector	81202
Additional mounting set	341210	NEOS AC/DC 24V Power Supply*	NEOS-PSU

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

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

## SHORT/LONGER RANGE STATIC CONTROL

NEOS is a new advanced method of static neutralisation, which is up to three times more powerful than existing equipment. NEOS works by sampling the electric field of the static charge and then increasing the supply of ions of the opposite polarity until the charge is neutralised. The sampling can be many times a second, so the response is very fast. In addition the customer can also access local and remote monitoring. This displays both the operational status and whether the Bar needs to be cleaned.

The customer also has the option to switch off the intelligence and use the Bars as conventional (powerful) static eliminators.

Model	Range	Size
NEOS12 F	30mm-100mm	300mm to 4980mm in 60mm steps.
NEOS12 L	100mm-600mm	360mm to 4920mm in 120mm steps.



Length
300mm
360mm
420mm
480mm
540mm
600mm
660mm
720mm
780mm
840mm
900mm
960mm
1020mm
1080mm
1140mm
1200mm
1260mm
1320mm
1380mm
1440mm

Sizes above do not include cable. Please see Options Below Please contact Sensemaster for current pricing & lead time



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## LONGER RANGE STATIC CONTROL

NEOS is a new advanced method of static neutralisation, which is up to three times more powerful than existing equipment. NEOS works by sampling the electric field of the static charge and then increasing the supply of ions of the opposite polarity until the charge is neutralised. The sampling can be many times a second, so the response is very fast. In addition the customer can also access local and remote monitoring. This displays both the operational status and whether the Bar needs to be cleaned.

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Options:	Code
NEOS AC/DC 24V Power Supply	NEOS-PSU
Neos 12 40mm Mounting Set	341210
Neos 20 40mm Mounting Set	34208
Neos 30 40mm Mounting Set	34308
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
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
Fraser Cleaning Kit	81220
Replacement Emitter Key (NEOS20 & 30)	342018
Replacement Emitter (NEOS20 & 30)	34201

Important Ordering Information	
Please use the following matrix when ordering either Model.	
Model	Overall Length (4 digits)
For example:	
NEOS12-F	0300mm
NEOS12-L	1320mm