

ANTI-STATIC BARS

NEOS 20 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 20 is a long range static eliminator for distances between 150 mm and 800 mm. For longer ranges see also NEOS 30.



Specification

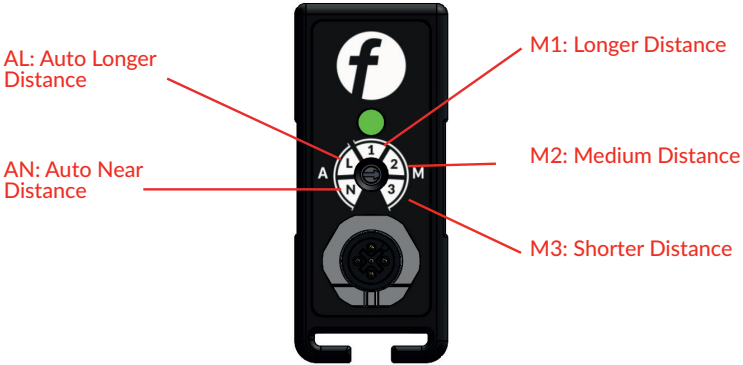
- > Shockless, resistively coupled replaceable emitters made in tungsten for long life.
- > NEOS Intelligence has two automatic and three manual settings to give the operator complete control. See page 2.
- > Remote and local monitoring of operation and "Clean Me" function.
- > LED status indication:
 - 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.

Size:	NEOS 20 Min length 450 mm then steps of 150 mm to 4.95 m.
Electrical Supply:	24 V DC (21-27 V), maximum current required 1.5 A M12 5-pin connector.
Remote Monitor:	2 signals available: "HV OK" and "Attention" can be used to drive external loads or interface to systems (lamp, relay, PLC as required).
High Voltage Supply:	20 kV supply integrated into Bar.
Construction:	Reinforced FR-ABS Industrial grade extrusion and end cap, fully encapsulated with epoxy resin.
Protection Classification:	IP67. Fully sealed.
Environment:	-10 to 55°C, 70%RH non-condensing.
Weight:	2.6 kg/m.
Certifications:	CE, UL & CB

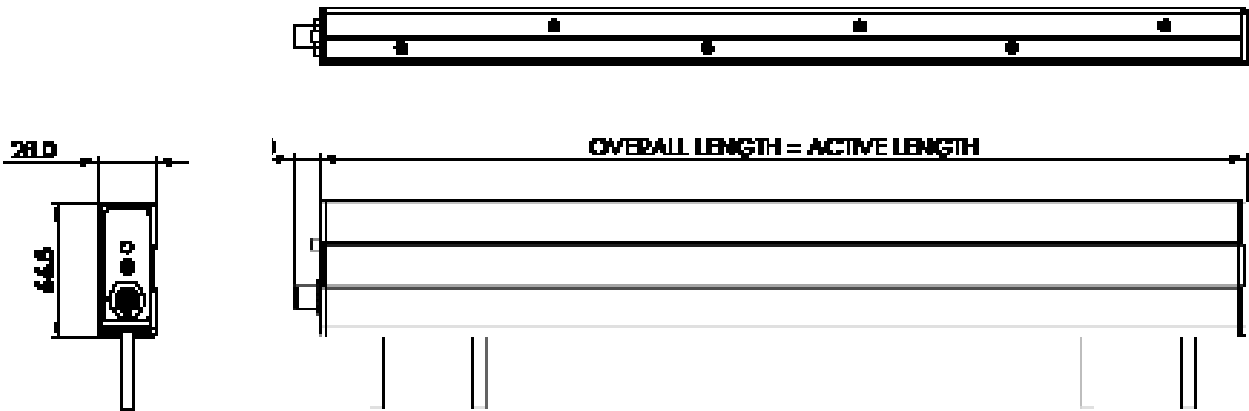
NEOS Intelligence

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.



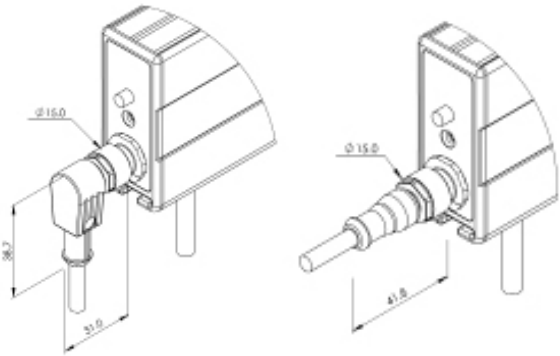
Dimensions - NEOS 20



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

Mounting

Each slide has two M6, 40 mm studs. Two fixing slides for bars up to 1m, 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	34208	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
NEOS 20	150mm-800mm	450mm to 4950mm in 150mm steps.



Length
450mm
600mm
750mm
900mm
1050mm
1200mm
1350mm
1500mm
1650mm
1800mm
1950mm
2100mm
2250mm
2400mm
2550mm
2700mm
2850mm
3000mm
3150mm
3300mm

Sizes above do not include cable. Please see Options (page 13).

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
NEOS 20	150mm-800mm	450mm to 4950mm in 150mm steps.



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:	
NEOS20	0450mm