EN

READ MANUAL
BEFORE COMMENCING
WITH INSTALLATION

Two Pole Surface Mount Connector

Installation & Operating Instructions



IECEx UKCA

The safety of any system incorporating the equipment referred to in this manual is the responsibility of the installer of the system.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Any warranty is made void if the equipment is not installed, or used, in accordance with the manufacturers instructions.

Product Overview

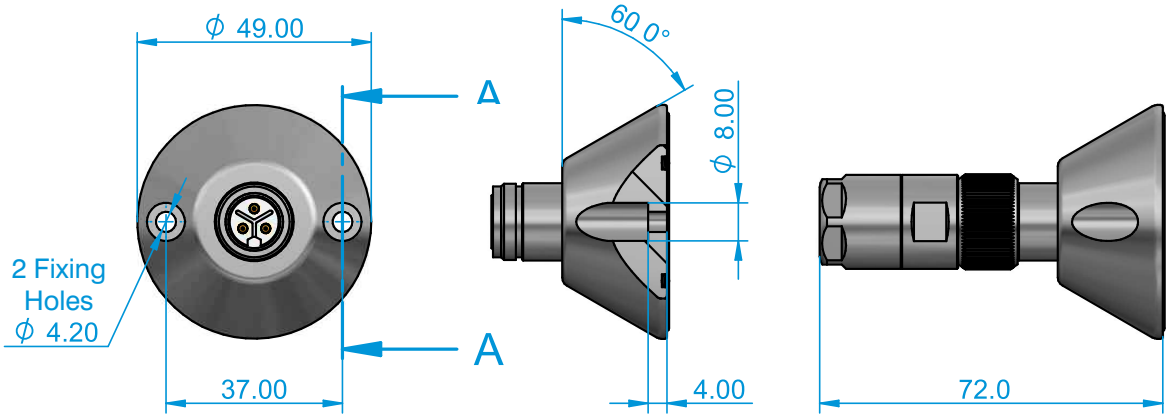
The problem of static electricity in hazardous atmospheres is ever present in many sectors of the processing industries. Effective grounding and bonding procedures are always the first step in controlling static, with special techniques being called for to suit individual applications.

The Two Pole Surface Mount Connector (SMC), provides a simple and reliable means of making a monitored earth connection onto an item of conductive plant. The SMC is manufactured from stainless steel and can provide an IP66 connection onto the item of plant. The connector is designed to be used with a Newson Gale intrinsically-safe earth monitoring system with the Ex ia monitoring current actually flowing through the plant item.

The SMC is bolted to the item of plant that is required to be earthed and a 2 core cable connects the SMC to a Newson Gale junction box. The junction box is, in turn, connected to a Newson Gale intrinsically-safe earth monitoring system. The monitoring system ensures that the connector, and plant item, are earthed; it is recommended an interlock contact is used where possible to provide an alarm or shut-down condition if the earth loop circuit is inadvertently broken.



Product Dimensions



SECTION A-A

Optional Sealing Cap





Instructions for Safe Use, Installation & Maintenance

The following declarations are made with respect to the Newson Gale Two Pole Surface Mount Connector.

1. The constructional materials of the equipment are deemed to be suitable for the intended use.

2. **Intended use:** The SMC is designed, in assocation with the appropriate Newson Gale monitoring device, to dissipate undesirable static electricity away from conductive objects during a process.

3. Mount SMC on a flat surface to ensure IP rated seal.

4. Ensure the SMC mounting position does not put undue pressure on the cable connection.

5. The SMC should be connected to a flexible, multi-strand 2 core cable suitable for the area of operation and the site conditions. a suitable cable can be supplied by Newson Gale.

6. The cable should be checked regularly to ensure that it has not been damaged. If the cable is found to be damaged it shall be replaced or re-terminated.

7. The SMC cable must have a connection to a verifiable earth point in order to dissipate static electricity.

8. Before use always check that the SMC and cable are in good condition.

9. The SMC should be bolted to the object requiring to be earthed at a position which is clean and free from any insulating coating. Check the resistance between the object to be earthed, and the SMC body using a suitable ohmmeter. The resistance should not exceed 1 ohm.

10. The SMC should be taken out of service if it becomes damaged.

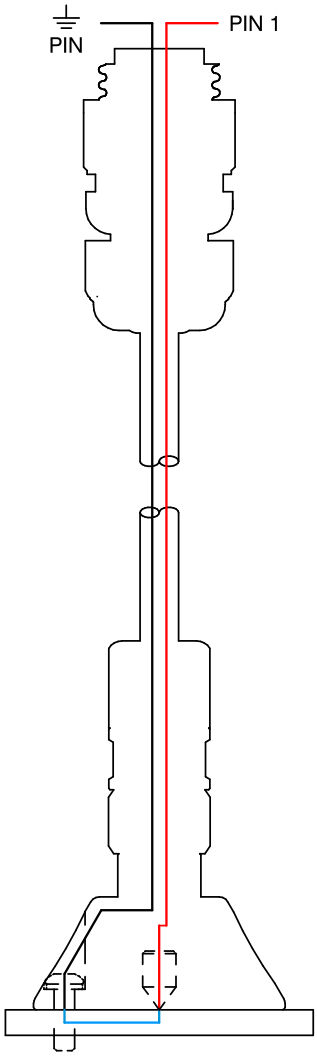
11. The SMC is designed to be used with a Newson Gale intrinsically safe monitoring system.

12. The SMC should be installed and used by trained, competent persons only.

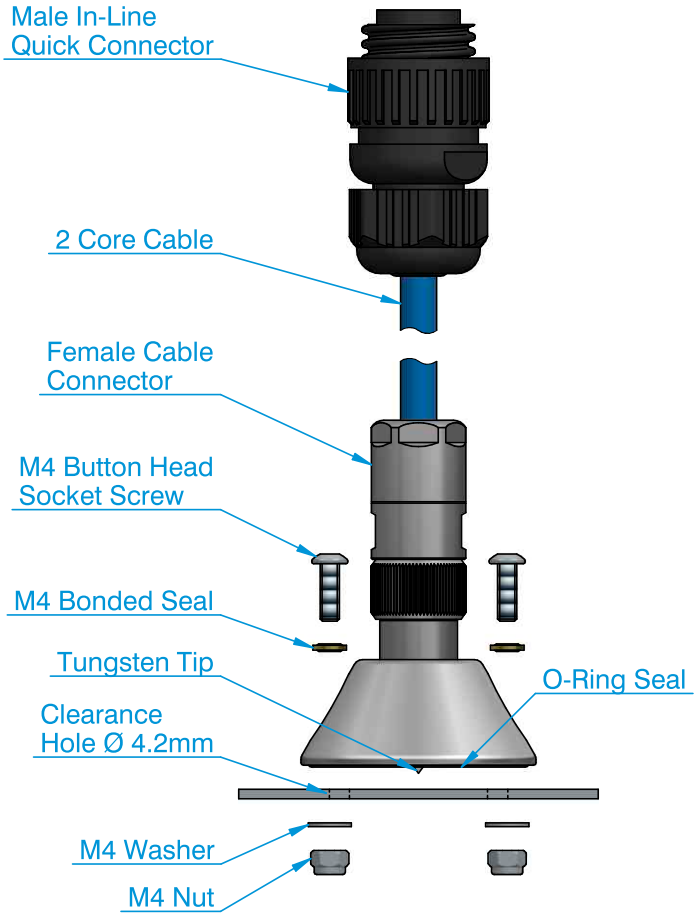
13. At the end of it's life the SMC should be disposed of in a safe, considerate manner.

Approval: The SMC is classified as Simple Apparatus.

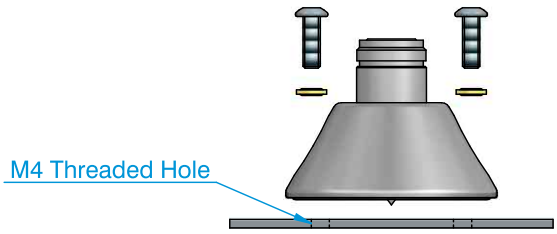
Wiring Diagram



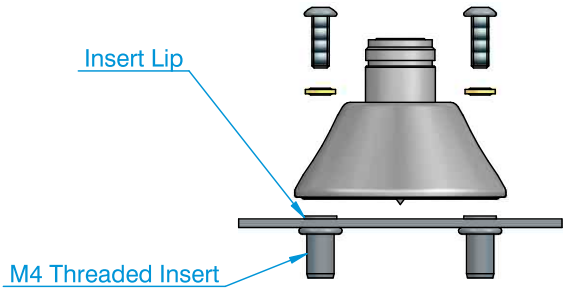
Mounting Options



THE PRESENCE OF THE BONDED SEAL ENSURES THE IP RATING



WHEN USING THE SMC ON VIBRATING EQUIPMENT CONSIDER THE USE OF THREAD LOCK



PLEASE NOTE: WHEN USING THREADED INSERTS THE LIP OF THE INSERT WILL PREVENT THE SMC FROM MOUNTING FULLY FLAT TO THE CORRESPONDING SURFACE AND WILL REDUCE THE EFFECTIVENESS OF THE O-RING SEAL

Technical Specification

Connector Body

Construction	Stainless Steel (Body) Viton (O-Ring) Polyacetal (Tip Housing) Tungsten Carbide Tip
Ingress Protection	IP66
Ambient Temperature Range	-40°C to +60°C
Certification	 II 1 G Ex h IIC T6 Ga II 1 D Ex h IIIC T185°C Da
Certificate No.	IECEx EXV 20.0033 ExVeritas 21UKEX0842
Weight	0.20 kgs (nett)

Spiral Cable

Cover	Blue Cen-Stat Hytrel sheath (Static dissipative, chemical & abrasion resistant)
Conductors	2 x 1.00mm^2 copper
Length	3, 5, 10 metres spiral (also available in straight lengths, please enquire)

NB: In line with our policy of continual product development, we reserve the right to alter specifications at any time.

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UK Declaration of Conformity

This declaration of conformity is issued under the sole responsibility of Newson Gale Ltd of Omega House, Private Road 8, Colwick, Nottingham

Declare that: The Newson Gale CAT 1 Static Grounding Clamps (Certificate: ExVeritas 21UKEX0842 – ExVeritas Certification Service 2585

- Are in accordance with the following regulations:

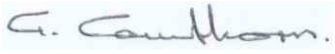
Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696)

- Have been designed and manufactured to the following specification:

CAT 1 Clamps: BS EN ISO 80079-36:2016

Note: The above equipment has been checked against the latest standard (Technical Knowledge) and the requirements have been found to be no more onerous.

I hereby declare that the equipment named above, on the date the equipment accompanied by this declaration is manufactured and shipped, has been designed to comply with the relevant sections of the above referenced specifications. The equipment complies with the essential requirements of the Regulations.

Signed by: 

Name: G. Cawthorn

Position: Electrical & Electronic Engineer

Location: Colwick, Nottingham

Date: 21st January 2022

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