

Ordering code

EMV-Y39637

EMC filter terminal

Features

- 2-channel connection pcb
- Compact design

Funktion

The board EMV-Y39637 is a two channel connection board. It is designed for use in intrinsically safe electric circuits. It must be installed in a housing conforming to EN 50020.

Technical Data

Input

| | |
|--------------------------|----------------------------|
| Connection | terminals 1+, 1- or 2+, 2- |
| Connectable sensor types | |

Output

| | |
|------------|-------------------------------------|
| Connection | Plug-in connection 1+, 1- or 2+, 2- |
|------------|-------------------------------------|

Ambient conditions

| | |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 100 °C (248 ... 373 K) |
| Storage temperature | -25 ... 100 °C (248 ... 373 K) |

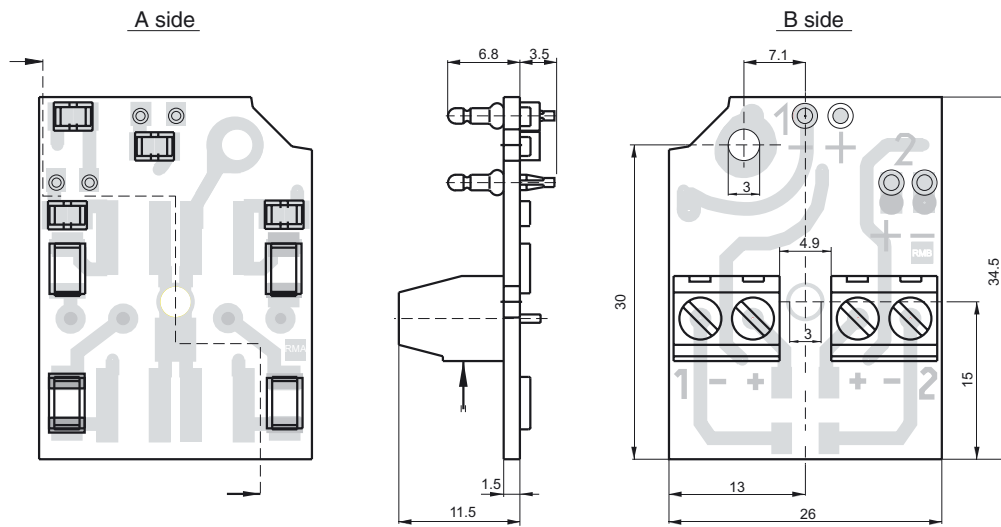
Mechanical specifications

| | |
|------------|--|
| Connection | Terminal connection $\leq 1.5 \text{ mm}^2$ The ends of conductors must be provided with connector sleeves. Tightening torque: $\leq 0.5 \text{ Nm}$ |
| Mass | approx. 8 g |
| Dimensions | 26 mm x 34.5 mm x 15 mm |

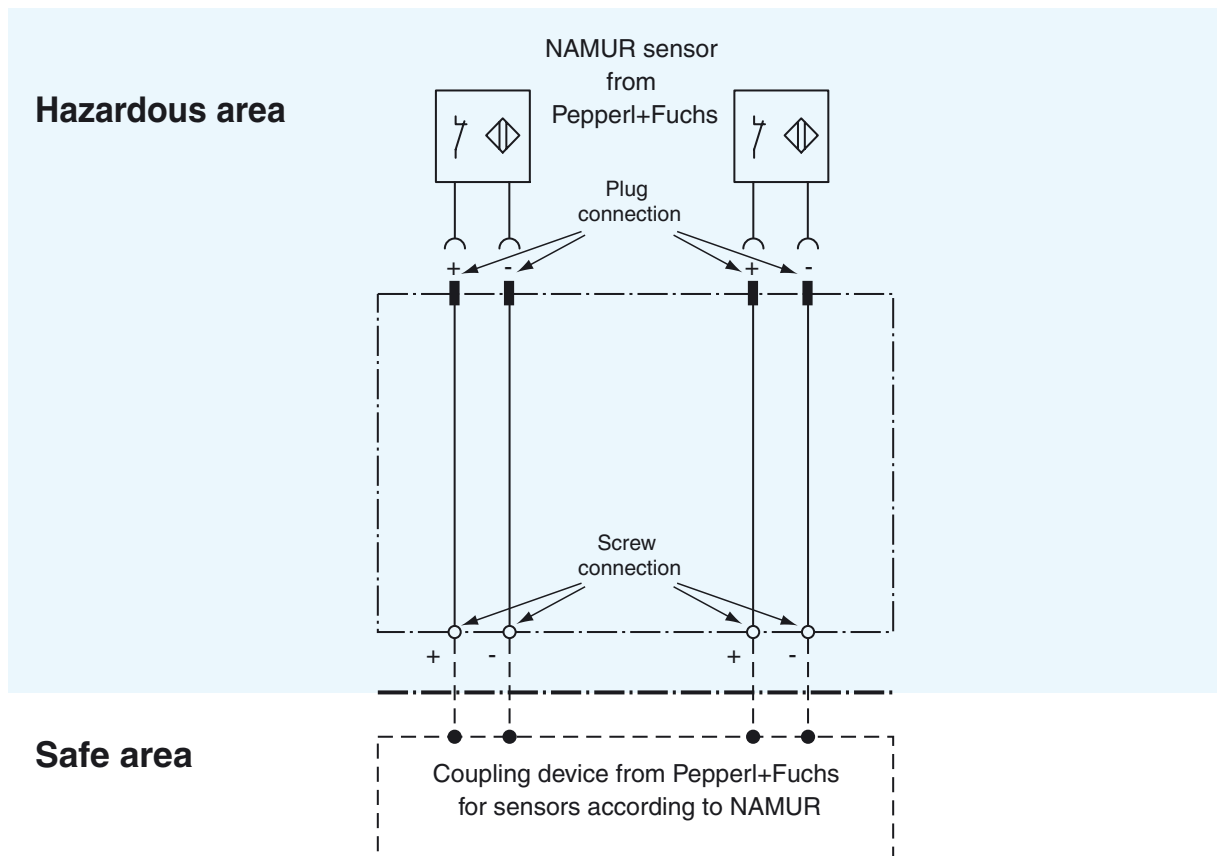
General information

| | |
|---------------------------|---------------------------------------|
| Use in the hazardous area | see ATEX certification for components |
| Category | 2G |

Dimensions



Electrical connection



ATEX certification

| | | |
|------------------------------------|-------|---|
| | | Conformity of components for application in hazardous areas in accordance with directive 94/9/EG |
| Device category 2G | | for use in hazardous areas with gas, vapour and mist |
| Directive conformity | | 94/9/EG |
| Standard conformity | | EN 50014:1997+A1+A2, EN 50020:2002 |
| | | Ignition protection "Intrinsic safety" |
| | | Use is restricted to the following stated conditions |
| Marking | | 5-3009... |
| Ex-identification | | no identification (for components for which conformity is not required in accordance with directive 94/9/EG) |
| Description | | The printed circuit provides for the direct through-looping of 2 galvanically-isolated circuits. The printed circuit board is suitable for the connection of 2 intrinsically safe circuits. The galvanic isolation of the intrinsically safe circuits is assured by satisfying the following requirements. |
| Connection | | Circuit 1: 1+, 1- Circuit 2: 2+, 2- |
| Maximum input values | | Each circuit can be operated with the following intrinsically safe circuits: $U_I = 16 \text{ V}$, $I_I = 76 \text{ mA}$. |
| Effective internal inductivity | C_i | 0 nF |
| Effective internal inductance | L_i | 0 μH |
| General | | The apparatus must be operated in accordance with the information in the data sheet and this certificate. |
| Installation, Commissioning | | Laws and/or regulations and standards governing the use or intended usage goal must be observed. The intrinsic safety is only assured in connection with an appropriate related apparatus and according to the proof of intrinsic safety. The printed circuit board must be installed in a housing, so that a protection class of at least IP20 is achieved in accordance with IEC 60529. The installation must be such, that the air gaps between the bare components of intrinsically safe circuits and metallic housing parts must be at least 3 mm and at least 6 mm in the case of non-intrinsically safe circuits. The connection components of the intrinsically safe circuits must be at least 50 mm from the connection components and bare conductors of each non-intrinsically safe circuit or isolated from these by an insulating wall or an earthed metallic wall. When such insulating walls are used, they must be at least 1.5 mm away from the housing wall and there must be a minimum separation of 50 mm between the connection components and the insulating wall, as measured in all directions. The housing used must satisfy the relevant requirements. For example, it must not be mechanically damaged and there must be no dangerous electrostatic charges. |
| Protection of the connection cable | | The connection cable must be prevented from being subjected to tension and torsional loading. |
| Maintenance | | No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible. |