



CE
0102

Ordering code

KC-EMV-Y38624

EMC series module for NAMUR sensors

Features

- 1-channel terminal amplifier
- NAMUR sensor input
- DC 24 V supply voltage
- Low noise sensitivity
- Compact terminal housing
- Clips onto standard 35 mm rail to DIN EN 50 022
- Protection degree IP20

Funktion

The KC-EMV-Y38624 is a module for operation in intrinsic safe circuits. It should be applied, if there are increased EMC requirements.

Protection of connected Pepperl+Fuchs NAMUR sensors against:

1. Burst

Fast transient voltage peaks according IEC 801-4, unsymmetrical, 2 kV, capacitive coupler, criterion A.

2. Current injection

High frequency unsymmetrical, amplitude modulated according IEC 801-6 and ENV 50141, 150 kHz ... 80 MHz, 10 V, 80 % AM, source impedance 150 W, criterion A.

All measurements with the particular sensor are carried out, set up on a grounded plate or with grounded housing.

Technical Data

Input

Connection terminals 5+, 6- , max. 16 V DC

Output

Connection terminals 1+, 2- Terminal 4/FE/PA
NAMUR

Ambient conditions

Ambient temperature -25 ... 100 °C (-13 ... 212 °F)

Storage temperature -25 ... 100 °C (-13 ... 212 °F)

Mechanical specifications

Mass 60 g

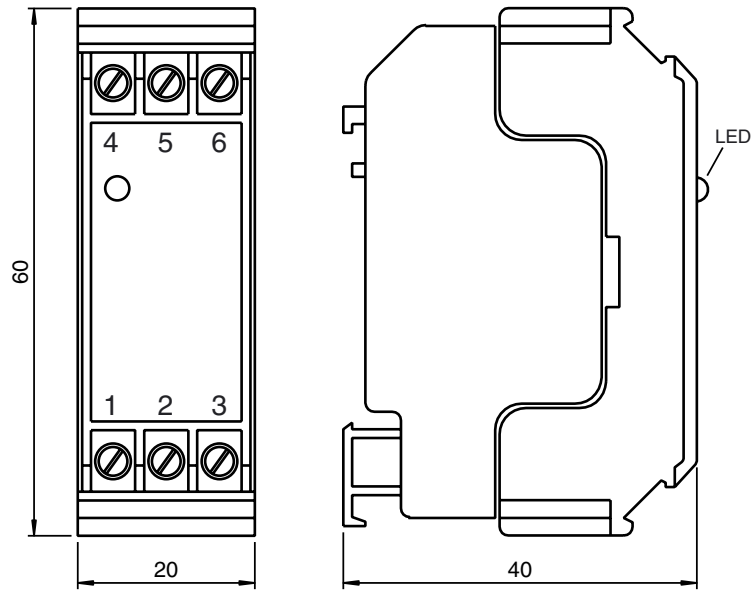
Dimensions 20 mm x 60 mm x 40 mm

General information

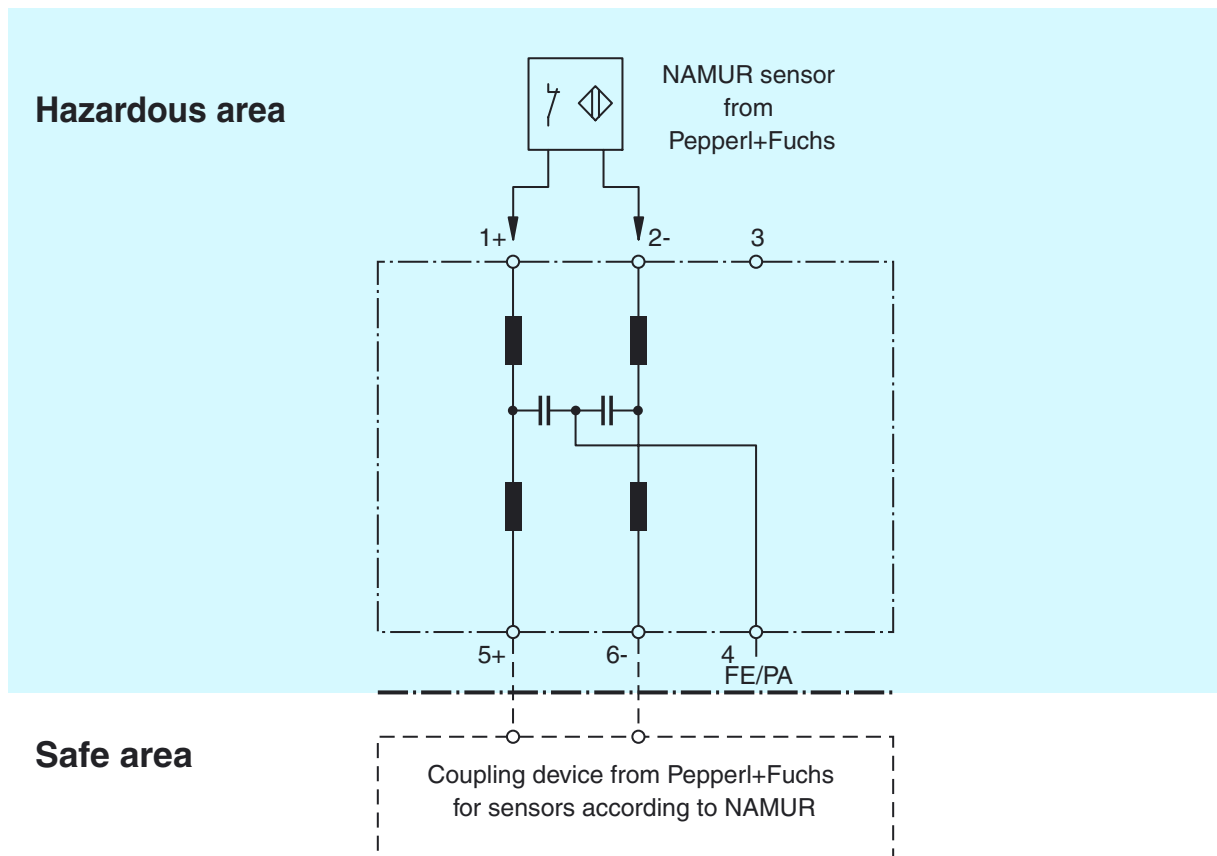
Use in the hazardous area see instruction manuals

Category 2G

Dimensions



Electrical connection



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ATEX 2G

Instruction	Manual electrical apparatus for hazardous areas
Device category 2G	for use in hazardous areas with gas, vapour and mist
Directive conformity	94/9/EG
Standard conformity	EN 50014:1997, EN 50020:1994 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
CE symbol	CE 0102
Ex-identification	⊕ II 2G EEx ia IIC T6
EC-Type Examination Certificate	DMT 99 ATEX E 104 X
Appropriate type	KC-EMV-Y38624
Effective internal capacitance C_i	≤ 40 nF
Effective internal inductance L_i	≤ 600 μ H
General	The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The EC-Type Examination Certificate has to be observed. The special conditions must be adhered to!
Highest permissible ambient temperature	The temperature ranges, according to temperature class, are given in the EC-Type Examination 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 apparatus must be protected from strong electromagnetic fields.
Maintenance	No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.
Special conditions	
Protection from mechanical danger	The apparatus must not become mechanically damaged.