



CE
0102

Model Number

KC-EMV1

EMC series module for NAMUR sensors

Features

- Compact terminal housing
- Clips onto standard 35 mm rail to DIN EN 50 022
- Protection degree IP20

The KC-EMV1 is a series module for use in intrinsically safe circuits. It is used when there are stringent EMC requirements.

1. Emission

Reduction of conducted emissions below limit curve A according to DIN VDE 0875/ part (EN 55011), measured with V-LISN, as well as below limits according to VDE 0877/ part 1, measured with T-LISN at 150 W, for all Pepperl+Fuchs NAMUR sensors.

2. Immission

Protection of connected Pepperl+Fuchs NAMUR sensors against:

2.1 Surge

Transients according to IEC 801-5, symmetrical, 1 kV, criterion B

Transients according to IEC 801-5, asymmetrical, 2 kV, criterion B

2.2 Burst

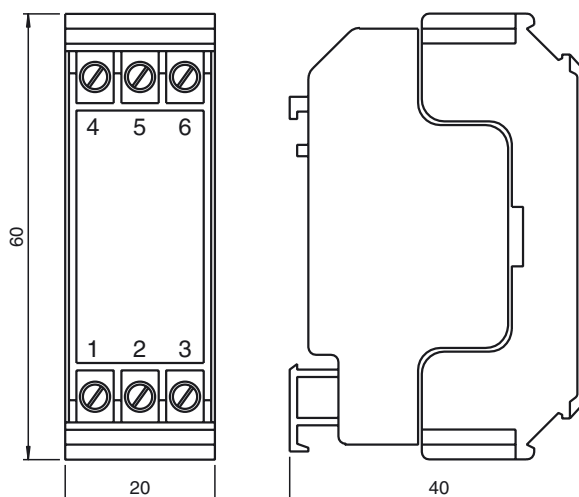
Fast transients according to IEC 801-4, asymmetrical, 2 kV, capacitive coupling, criterion B

2.3 Power supply

High frequency asymmetrical, amplitude modulated according to IEC 801-6 or ENV 50141, 150 kHz ... 80 MHz, 10 V, 80 % AM, source impedance 150 W.

All measurements with the relevant sensor on a grounded panel or with grounded housing.

Dimensions



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)

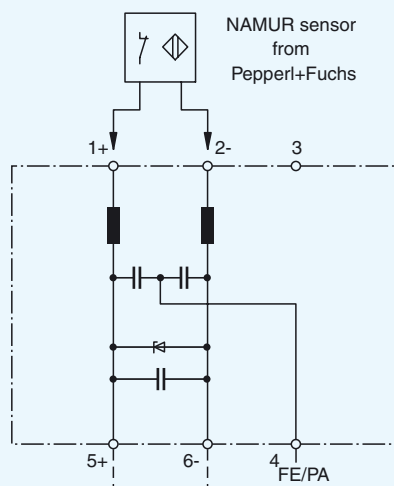
Mechanical specifications

Mass 60 g

Dimensions 20 mm x 60 mm x 40 mm

Connection

Hazardous area



Safe area

Coupling device from Pepperl+Fuchs for sensors according to NAMUR

ATEX

Data for Ex areas

Effective internal inductivity	C_i	$\leq 140 \text{ nF}$
Effective internal inductance	L_i	$\leq 500 \mu\text{H}$

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