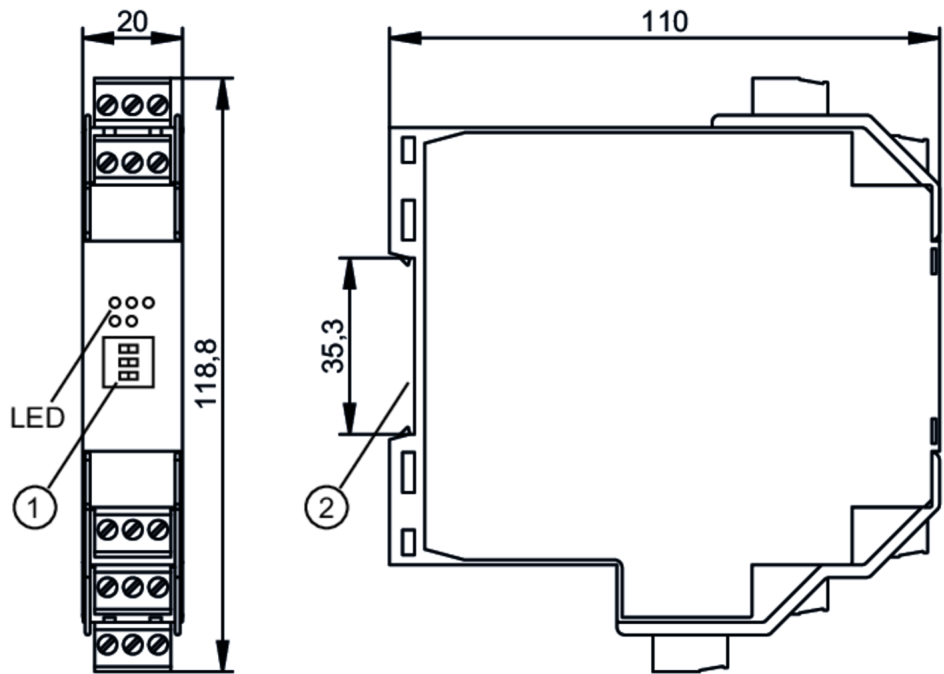


N0032A



Switching amplifiers for Namur sensors

NV1221/115VAC/RL/1D/1G



- 1 selector switch
- 2 mounting on DIN rail



Application

Application short-circuit monitoring; Wire monitoring

Electrical data

|                             |     |          |
|-----------------------------|-----|----------|
| Operating voltage tolerance | [%] | -10...10 |
| Operating voltage           | [V] | 115 AC   |
| Power consumption           | [W] | 1.3      |
| Number of channels          |     | 2        |

Outputs

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| Electrical design      | relay; (per channel: 1 changeover contact)                          |
| Contact rating         | 253 V AC / 2 A / cos phi > 0,7 // 40 V DC / 2 A; (ohmic resistance) |
| Switching frequency AC | [Hz] 10                                                             |

Operating conditions

|                     |               |
|---------------------|---------------|
| Ambient temperature | [°C] -20...60 |
| Protection          | IP 20         |

Tests / approvals

|              |                                                   |        |
|--------------|---------------------------------------------------|--------|
| Approval     | PTB 02 ATEX 2035; TIIS TC16048; IECEx PTB 17.0023 |        |
| ATEX marking | Ex II (1) G [Ex ia Ga] IIC                        |        |
|              | Ex II (1) D [Ex ia Da] IIIC                       |        |
| EMC          | EN 50081-2                                        | (1993) |
|              | EN 61326-1                                        | (2006) |
| MTTF         | [ANN]                                             | 458    |

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## Switching amplifiers for Namur sensors

NV1221/115VAC/RL/1D/1G

| Mechanical data               |                                                                         |                 |
|-------------------------------|-------------------------------------------------------------------------|-----------------|
| Weight                        | [g]                                                                     | 230.45          |
| Switching cycles mechanical   |                                                                         | 10 million      |
| Displays / operating elements |                                                                         |                 |
| Display                       | switching status                                                        | 2 x LED, yellow |
|                               | operation                                                               | LED, green      |
|                               | function                                                                | 2 x LED, red    |
| Remarks                       |                                                                         |                 |
| Remarks                       | Caution The control monitor must be mounted outside the hazardous area. |                 |
|                               | Free terminals must not be used.                                        |                 |
| Pack quantity                 |                                                                         | 1 pcs.          |

## Switching amplifiers for Namur sensors

NV1221/115VAC/RL/1D/1G

### Electrical connection

terminals: ...2.5 mm<sup>2</sup>

### Connection



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## Switching amplifiers for Namur sensors

NV1221/115VAC/RL/1D/1G

### Other data

#### Maximum values for control circuit

| in protection rating<br>intrinsic safety | [EEx ia] IIC | [EEx ia] IIB | [EEx ib] IIC | [EEx ib] IIB |
|------------------------------------------|--------------|--------------|--------------|--------------|
| Voltage [V]                              | 10.6         | 10.6         | 10.6         | 10.6         |
| Current [mA]                             | 19.1         | 19.1         | 19.1         | 19.1         |
| Power [mW]                               | 51           | 51           | 51           | 51           |
| External inductance [mH]                 | 97           | 390          | 97           | 390          |
| External capacitance [ $\mu$ F]          | 2.32         | 16.2         | 2.32         | 16.2         |