

- 1: LED
- 2: selector switch
- 3: Mounting on DIN rail



Product characteristics

Switching amplifier for Namur sensors according to 94/9/EG (ATEX)

ATEX approval

Group II, category (1) G D

2-channel

Relay outputs

Programmable output function

Short-circuit and wire monitoring

Electrical data

Electrical design

DC

Operating voltage [V]

24 DC

Voltage tolerance [%]

-15 /+25

Current consumption [mA]

< 50

Outputs

Output function

relay (1 changeover contact per channel)

Switching frequency [Hz]

10

Contact rating

253 V AC / 2 A / cos phi > 0.7 // 40 V DC / 2 A; resistive load

Switch points

1.2...2.1 mA

Environment

Ambient temperature [°C]

-20...60

Protection

IP 20

Tests / approvals

Approval

PTB 02 ATEX 2036

Marking of the unit

⊕ II (1) G [Ex ia] IIC
⊕ II (1) D [Ex ia] IIIC

EMC

EN 50081-2 (1993)
EN 61326-1 (2006)

MTTF

[Years]

326

Safety classification

Maximum values for control circuit

Description

in protection rating intrinsic safety
[EEx ia] IIC, [EEx ia] IIB, [EEx ib] IIC, [EEx ib] IIB

Voltage [V]

10.5

Current [mA]

13

Power [mW]

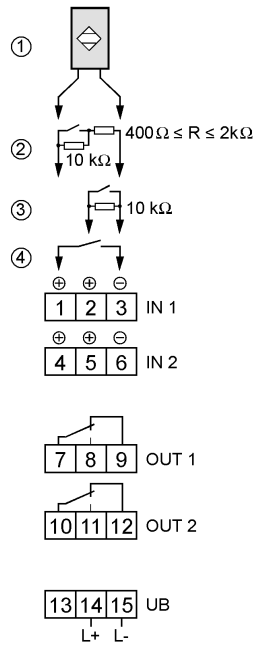
34

N0533A - Switching amplifier for Namur sensors according to 94/9/EG (ATEX) - eclass: 27279213 / 27-27-92-13

| | in protection rating intrinsic safety | | | |
|-------------------------------|---------------------------------------|--------------|--------------|--------------|
| | [EEx ia] IIC | [EEx ia] IIB | [EEx ib] IIC | [EEx ib] IIB |
| External inductance | 210 mH | 840 mH | 210 mH | 840 mH |
| External capacitance | 2.41 μ F | 16.8 μ F | 2.41 μ F | 16.8 μ F |
| Mechanical data | | | | |
| Lifetime | 10E7 operating cycles | | | |
| Weight [kg] | 0.182 | | | |
| Displays / operating elements | | | | |
| Power LED | green | | | |
| Output status indication LED | 2 x yellow | | | |
| Function display LED | 2 x red | | | |
| Electrical connection | | | | |
| Connection | terminals up to 2.5 mm ² | | | |

Wiring

- 1: switch S3 in position I
- 2: switch S3 in position I
- 3: switch S3 in position I;
without short-circuit monitoring
- 4: switch S3 in position II;
without short-circuit and wire monitoring



Remarks

Remarks

Please note: The control monitor must be mounted outside the hazardous area!
Free terminals must not be used.

Pack quantity

[piece]

1