

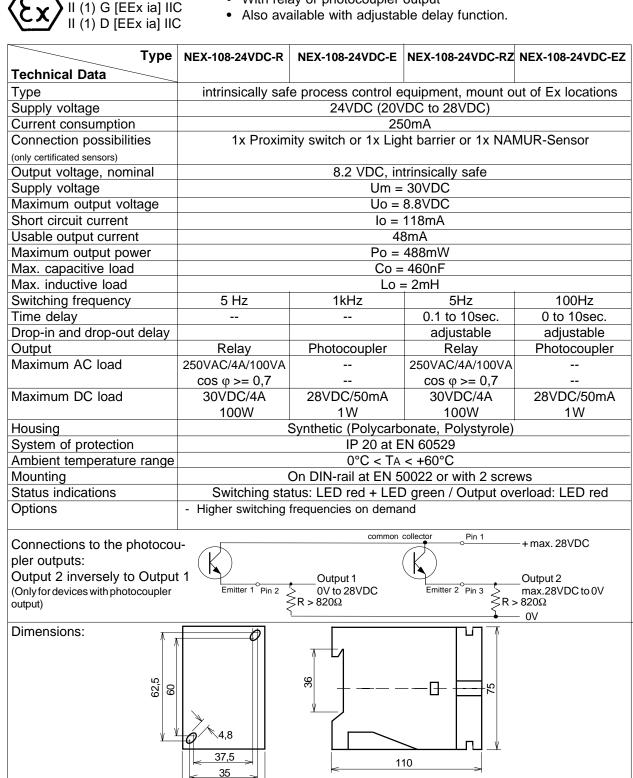
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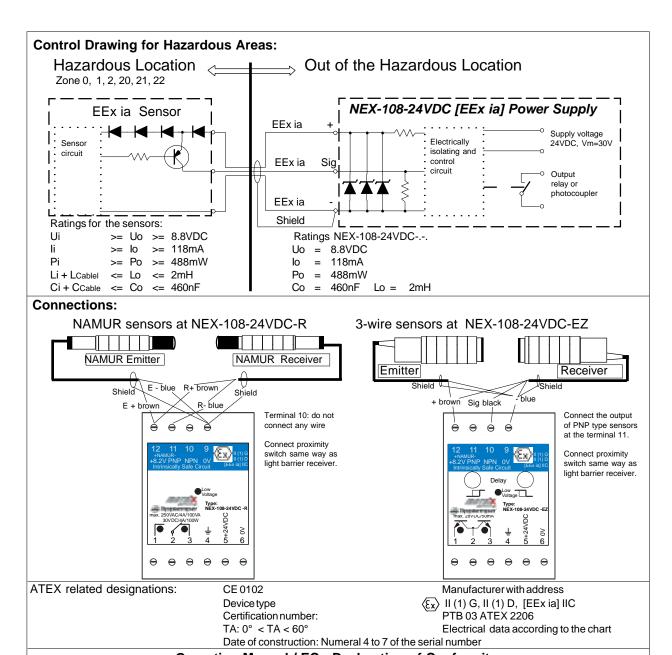
ASSURIX Intrinsically Safe Power Supply NEX-108-24VDC

Operating Manual and Control Drawing No. NEX108DC e

- Power supply and process control equipment for sensors in hazardous Ex zones 0, 1, 2, 20, 21, 22
- Type of Ex protection: Intrinsic safe [EEx ia] IIC
- ATEX Certification: PTB 03 ATEX 2206
- Also applicable for intrinsic safe 3-wire and NAMUR sensors of the series Assurix.
- With relay or photocoupler output
- Also available with adjustable delay function.



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Operating Manual / EC - Declaration of Conformity:

Mounting prescriptions Ex Protection

It is necessary to take into consideration the valid rules, regulations, directives and guidelines referred to Ex protection. The intrinsically safe power supply must be installed out of the explosion risk area. The connection of the intrinsically safe sensors must be realized out of the explosion risk area. For the evaluation of the additional connection cables, the maximum rated capacity and inductivity must be observed. Do not exceed the maximum rated supply voltage of Um=30VDC. Function

The power supply NEX-108-.. will provide the power and signalling function for intrinsically safe sensors at protection level EEx ia usable in Ex zones 0, 1, 2, 20, 21, 22. When the PNP or NPN input is activated or I-NAMUR > 2mA, the red LED will light up and the output will be activated. When the inputs are passive or I-NAMUR < 1mA, the LED shows green and the output will be turned out. For the "Z"-versions, the drop-in and dropout time delays can be adjusted by 2 potentiometers. For high switching frequencies use the types with photocoupler outputs. If the intrinsically safe output will be overloaded, the LED "Low Voltage" lights up.

Maintenance

The power supply does not require any special maintenance. Equipment must only be repaired or serviced by the manufacturer.

General Notes

We reserve the right to modify our equipment. Our equipment is designed such way, that it has the least possible adverse effect on the environment. It neither emit or contain any damaging or siliconized substances and use a minimum of energy and resources. No longer usable or irreparable units must be disposed of in accordance with local waste disposal regulations.

Safety Informations

When installing and operating with the sensor, it is necessary to take into consideration the relevant international and other national regulations. ATEX 118a, ElexV, TRbF, TRD, UVV, EX-RL,BetrSichV (ATEX 137), single directive 1999/92/EG. Standards met:

- EN 50014:1997+A1+A2, EN 50020:2002, EN 50284, EN 50281-1-1; EN 61000-6-1/-2, EN 61000-6-3/4
- Ex protection: 94/9/EG (ATEX 100a)
- Machine directive: 98/37/EG
- Low voltage directive: 73/23/EWG
- EMC 89/336/EWG,92/31/EWG,93/68EWG

Approvals and Declaration of conformity: PTB 03 ATEX 2206

The conformity of the devices with the EC standards and directives and the EC-type examination certificate and the observation of the Quality Safety System ISO 9001 with the ATEX module "Production", declares:

Hans Bracher, Matrix Elektronik AG

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