

# Passive DC signal isolator

## SINEAX SI 815, EURAX SI 815, SIRAX SI 815



with power supply transfer and designed for FSK communication

- Electrical insulation of a 4...20 mA measurement / supply circuit of a two-wire transmitter
- No power supply
- Designed for FSK communication (HART- or user-specific protocol)

Type of protection  II (1) G

[EEEx ia] IIC

### Certificates

|                       |   |   |
|-----------------------|---|---|
| Mechanical design     |  |  |
| Housing S17, SINEAX   | PTB 97 ATEX 2101  | /   |
| Housing N17, SINEAX   | PTB 97 ATEX 2111  | /   |
| Plug-in module, EURAX | PTB-Nr.: Ex-96.D.2042X *)   | 96,1 10359,02   |
| Plug-in module, SIRAX | PTB 97 ATEX 2101  | /   |

### Output

$U_o = 23.1 \text{ V}$   
 $I_o = 100 \text{ mA}$   
 $P_o = 580 \text{ mW}$   
 linear characteristic

### Input

$U_{nom} = 30 \text{ V}$   
 $I_{nom} = 20 \text{ mA}$   
 $U_m = 253 \text{ V AC resp. } 125 \text{ V DC}$

|                             |                      |         |         |         |         |        |
|-----------------------------|----------------------|---------|---------|---------|---------|--------|
| 97 ATEX 2101 / 97 ATEX 2111 |                      |         |         |         |         |        |
|                             | Both $L_o$ and $C_o$ |         |         |         |         |        |
|                             | IIC                  | IIB     | IIC     |         |         | IIB    |
| $L_o$                       | 4 mH                 | 15 mH   | 0.48 mH | 0.5 mH  | 1 mH    | 2.2 mH |
| $C_o$                       | 140 nF               | 1020 nF | 54 nF   | 54.8 nF | 49.7 nF | 339 nF |

|               |        |        |        |        |
|---------------|--------|--------|--------|--------|
| Ex-96.D.2042X |        |        |        |        |
|               | ia IIC | ia IIB | ib IIC | ib IIB |
| $L_o$         | 1 mH   | 5 mH   | 4 mH   | 15 mH  |
| $C_o$         | 50 nF  | 250 nF | 120 nF | 680 nF |

### \*) Special features for EURAX SI 815:

The signal isolator must be installed in such a way that at least protection class IP 20 acc. to EN 60 529 is attained.



SINEAX SI 815-1 in housing S17  
2 channels



SINEAX SI 815-5 in housing N17  
1 channel



EURAX SI 815-2 as 19" plug-in module  
3 channels



SIRAX SI 815-6 as plug-in module  
2 channels