

# Passive DC signal isolator

## SINEAX TI 807, EURAX TI 807, SIRAX TI 807

### without power supply

- Electrical insulation of a 0...20 mA measurement / supply circuit of a two-wire transmitter
- No power supply
- Input or output intrinsically safe

**Type of protection**  $\text{Ex}$  II (1) G resp II (2) G

[EEx ia] IIC: Output intrinsically safe or [EEx ib] IIC: Input intrinsically safe

### Certificates

Mechanical Design	$\text{Ex}$	$\text{S}$
Housing S17, SINEAX	PTB 97 ATEX 2102	/
Housing N17, SINEAX	PTB 97 ATEX 2112	/
Plug-in module, EURAX	PTB-Nr.: Ex-96.D.2126X *)	96,1 10359,04
Plug-in module, EURAX	PTB 97 ATEX 2102	/

### Output EEx ia

$U_o = 15.75 \text{ V}$   
 $I_o = 100 \text{ mA}$   
 $P_o = 400 \text{ mW}$   
 linear output 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 2102 / 97 ATEX 2112		Both $L_o$ and $C_o$		
	IIC	IIB	IIC	IIB
$L_o$	4 mH	15 mH	1.2 mH	4.3 mH
$C_o$	478 nF	2.88 $\mu\text{F}$	190 nF	701 nF

Ex-96.D.2126X				
	ia IIC	ia IIB	ib IIC	ib IIB
$L_o$	2 mH	5 mH	4 mH	15 mH
$C_o$	180 nF	640 nF	500 nF	1.9 $\mu\text{F}$

### Input EEx ib

for connection to certified intrinsically safe circuits with following maximum values:  
 $U_i \leq 33 \text{ V}$  and  $I_i \leq 150 \text{ mA}$   
 ( $U_i \leq 30 \text{ V}$  at SIRAX TI 807)  
 $C_i = 0$        $L_i = 0.03 \text{ mH}$

### Output

Only for connection to equipment with operating voltages  $\leq 253 \text{ V AC resp. } 125 \text{ V DC}$

### \*) Special features for EURAX TI 807

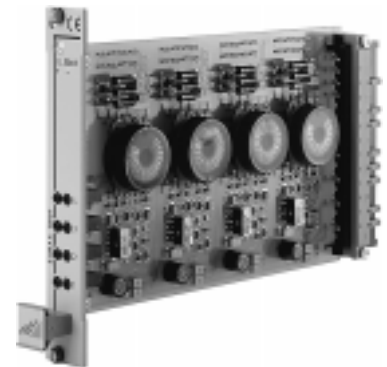
The signal isolator must be installed in such a way that at least protection class IP 20 acc. to EN 60 529 is attained.



SINEAX TI 807-1 in housing S17  
3 channels



SINEAX TI 807-5 in housing N17  
1 channel



EURAX TI 807-2 as 19" plug-in module  
4 channels



SIRAX TI 807-6 as plug-in module  
3 channels