

(13) **SCHEDULE**

(14) **EC-Type-Examination Certificate No. TÜV 15 ATEX 172070**

(15) Description of equipment

The Ex-separators type

VEGATRENN 141.*C/O/U*****

VEGATRENN 142.*C/O/U*****

are used for the supply of passive, intrinsically safe 4 ... 20 mA two wire measuring sensors, the safe galvanic separation of the intrinsically safe circuits from all non-intrinsically safe circuits and the signal transmission from 4... 20 mA sensors in the explosion hazardous area.

The Ex-separators are active with own supply.

The Ex-separators are executed with 1 or with 2 channels.

The permissible ambient temperature range is -20 °C ... +60 °C.

Electrical data

Supply circuit

(Terminals 16, 17)

U = 24 ... 230 V a. c. -15 %/+10 %; 50 Hz ... 60 Hz

U = 24 ... 65 V d. c. -15 %/+10 %

U_m = 253 V

Current output circuits

(Terminals

Channel 1: 10, 11; 12

Channel 2: 13, 14; 15)

4...20 mA, active

No load voltage: 16.5 V

U_m = 253 V

Signal circuits

(Terminals

Channel 1: 1, 2

Channel 2: 4, 5)

in type of protection „Intrinsic Safety“ Ex ia IIC, IIB, I

Maximum values per circuit:

U_o = 26.3 V

I_o = 100 mA

P_o = 658 mW

Characteristic line: linear

Effective internal capacitance: 1.2 nF

The effective internal inductances are negligibly small.

| Ex ia | IIC | IIB | I |
|-----------------------------------|----------|---------|---------|
| max. permissible ext. inductance | 0.2 mH | 2 mH | 5 mH |
| max. permissible ext. capacitance | 0.096 µF | 0.33 µF | 0.71 µF |

The maximum values of the tables are also allowed to be used up to the permissible limits as concentrated capacitances and as concentrated inductances.

The values for IIC and IIB are also permissible for explosive dust atmospheres.

The intrinsically safe circuits are safe galvanically separated from the non-intrinsically safe circuits up to a peak value of the voltage of 375 V.

(16) The test documents are listed in the test report No. 16 203 172070.

(17) Special conditions for safe use

None

(18) Essential Health and Safety Requirements

no additional ones

