





(13)

## SCHEDULE

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 02 ATEX 1831 X**

(15) Description of equipment

The positioner type TZID-C110 resp. TZID-C210 is used for the control resp. closed loop control of pneumatically driven valves. The reference value is transmitted via field bus. A integrated position sensor detects the current position of the valve drive.

An integrated current /pressure transformer (I/P) is used for the control of the pneumatic auxiliary power.

The permissible ambient temperature range in dependence on the temperature class has to be taken from the following table:

Temperature class	Ambient temperature range
T4	- 40 °C to + 85 °C
T5	- 40 °C to + 55 °C
T6	- 40 °C to + 40 °C

### Electrical data

Input circuit  
(terminal +11, -12 resp.+, -)

in type of protection „Intrinsic Safety“ EEx ia IIC  
resp. EEx ib IIC  
only for the connection to a certified intrinsically safe circuit (e.g. FISCO power supply) with the maximum values according to the following table:

	FISCO power supply ia / ib for group IIB / IIC	FISCO power supply ia / ib for group IIB / IIC	Barrier or power supply ia / ib for group IIB / IIC
Voltage	17.5 V	17.5 V	24 V
Current	380 mA	360 mA	250 mA
Power	5.32 W	2.52 W	1.2 W
Characteristic line	rectangular	trapezoidal	linear

$L_i$  negligibly small  
 $C_i$  negligibly small

Circuit for shutdown function  
(terminal +85 and -86)

in type of protection „Intrinsic Safety“ EEx ia IIC  
resp. EEx ib IIC  
only for the connection to certified intrinsically safe circuits with the maximum values of:  
 $U_i = 30 V$

$C_i = 3.7 nF$   
 $L_i$  negligibly small



Circuit for digital position  
feedback with proximity switches  
(terminals Limit1 +51, -52  
resp. Limit2 +41, -42)

maximum values see EG-type examination certificate  
No. PTB 00 ATEX 2049 X

Local communication interface (LKS)  
and programming interface (X5)

for the connection to the programmer resp. PC  
outside of the hazardous area

(16) Test documents are listed in the test report No.: 02 YEX 165336.

(17) Special conditions for safe use

The operation of the local communication interface (LKS) and of the programming interface (X5) is only allowed outside of the hazardous explosive area.

(18) Essential Health and Safety Requirements

no additional ones