


Electropneumatic positioner type A781

TECHNICAL DATA cont.

- ambient temperature	-40°C...+80°C
- relative humidity	<100%
- additional errors	
from supply pressure changes 0,14...0,25 MPa	0,5% / 10%
from supply pressure changes 0,25...0,60 MPa	1% / 10%
from ambient temperature changes	0,4% / 10°C
from vibrations in range	
10...60 Hz, amplitude <0,35 mm	
60...500 Hz, acceleration 5g	1%
from the influence of constant and alternate magnetic field at strength 100 A/m, 50 Hz (acc. to PN-EN 6100-4-8:1998)	max. 0,5 of allowable nonlinearity
from the electromagnetic field radiation perturbations at the radio frequency 10 V/m, in the frequency range from 80 Mhz to 1 GHz (acc. to PN-EN 6100-4-3:2002)	max. 0,5 of allowable nonlinearity
from the series of quick intermediate states, caused by the voltage of peak value 2 KV (acc. to PN-EN6100-4-4:2002)	max. 0,5 of allowable nonlinearity
from the surge at 0,5 kV (acc. to PN-EN 6100-4-5:2006)	max. 1%
- positioner operation	normal or reversed (change by the current direction switch - the current floating by coil)
- intrinsic protection mark	 II 2G EEx ia IIC T6/T5/T4
- use conditions in the danger zone	

1. Positioner A781 - A2XX - ... may cooperate only with the spark protected circuit with the following parameters:
 $U_i = 28 \text{ V dc}$, $I_j = 100 \text{ mA}$, $P_j = 0,7 \text{ W}$
2. The connection between positioner and cooperating devices must be made from the separate wires or cable, which will connect the spark protected circuits **only**. The L and C parameters of the external circuit should be the same as for the device cooperating with positioner.
3. The allowable ambient temperature, according to the temperature class:

Gases and liquid vapours temperature class	T6	T5	T4
Allowable ambient temperature (T_a)			
- version without manometers	-40°C...+50°C	-40°C...+65°C	-40°C...+80°C
- version with manometers	-25°C...+50°C	-25°C...+50°C	-25°C...+65°C

- cover protection rating	IP54
- operational position	arbitrary
- pneumatic terminals	acc. to versions table (CODE4)
- electric terminals	screw terminals for cables with diameter up to 2,5 mm
- weight	
A781-AX00 and AX02...AX14-... A781-AX17- and Ax18-... without manometers	1,2 kg
A781-AX00 and AX02...AX14-... A781-AX17- and Ax18-... with manometers	1,5 kg
A781-AX01-... without manometers	1,5 kg
A781-AX01-... with manometers	1,8 kg

MATERIALS

- housing	powder coated aluminium alloy, colour RAL5010
- pneumatic connectors	nickel plated brass or stainless steel
- manometers	brass, galvanized, lacquered or stainless steel
- other external parts	stainless or galvanized steel