



## **6ES7331-7KB02-0AB0**

URL: <https://www.sxplc.com/6es7331-7kb02-0ab0>

### **Product data sheet**

Supply voltage

Load voltage L+

- Rated value (DC) 24 V
- Reverse polarity protection Yes

Input current

from load voltage L+ (without load), max. 30 mA

from backplane bus 5 V DC, max. 50 mA

Power loss

Power loss, typ. 1 W

Analog inputs

Number of analog inputs 2

● For resistance measurement 1

permissible input voltage for voltage input (destruction

limit), max.

20 V; continuous; 75 V for max. 1 s (mark to space ratio 1:20)

permissible input current for current input (destruction

limit), max.

40 mA

Constant measurement current for resistance-type

transmitter, typ.

1.67 mA

Input ranges

● Voltage Yes

● Current Yes

● Thermocouple Yes

● Resistance thermometer Yes

● Resistance Yes

Input ranges (rated values), voltages

● 0 to +10 V No

● 1 V to 5 V Yes

— Input resistance (1 V to 5 V) 100 k $\Omega$

● 1 V to 10 V No

● -1 V to +1 V Yes

— Input resistance (-1 V to +1 V) 10 M $\Omega$

● -10 V to +10 V Yes

— Input resistance (-10 V to +10 V) 100 k $\Omega$

● -2.5 V to +2.5 V Yes

— Input resistance (-2.5 V to +2.5 V) 100 k $\Omega$

● -250 mV to +250 mV Yes

— Input resistance (-250 mV to +250 mV) 10 M $\Omega$

● -5 V to +5 V Yes

— Input resistance (-5 V to +5 V) 100 k $\Omega$

● -50 mV to +50 mV No

● -500 mV to +500 mV Yes

— Input resistance (-500 mV to +500 mV) 10 M $\Omega$

● -80 mV to +80 mV Yes

— Input resistance (-80 mV to +80 mV) 10 M $\Omega$

Input ranges (rated values), currents

● 0 to 20 mA Yes

— Input resistance (0 to 20 mA) 25  $\Omega$

● -10 mA to +10 mA Yes

— Input resistance (-10 mA to +10 mA) 25  $\Omega$

● -20 mA to +20 mA Yes

— Input resistance (-20 mA to +20 mA) 25  $\Omega$

● -3.2 mA to +3.2 mA Yes

— Input resistance (-3.2 mA to +3.2 mA) 25  $\Omega$

● 4 mA to 20 mA Yes

— Input resistance (4 mA to 20 mA) 25  $\Omega$

Input ranges (rated values), thermocouples

● Type B No

● Type E Yes

— Input resistance (Type E) 10 M $\Omega$

● Type J Yes

— Input resistance (type J) 10 M $\Omega$

● Type K Yes

— Input resistance (Type K) 10 M $\Omega$

● Type L No

● Type N Yes

— Input resistance (Type N) 10 M $\Omega$

● Type R No

● Type S No

● Type T No

● Type U No

● Type TXK/TXK(L) to GOST No

Input ranges (rated values), resistance thermometer

● Cu 10 No

● Ni 100 Yes

— Input resistance (Ni 100) 10 M $\Omega$ ; Standard

● Ni 1000 No

● LG-Ni 1000 No

● Ni 120 No

● Ni 200 No

● Ni 500 No

● Pt 100 Yes

— Input resistance (Pt 100) 10 k $\Omega$ ; Standard

● Pt 1000 No

● Pt 200 No

● Pt 500 No

Input ranges (rated values), resistors

● 0 to 150 ohms Yes

— Input resistance (0 to 150 ohms) 10 M $\Omega$

● 0 to 300 ohms Yes

— Input resistance (0 to 300 ohms) 10 M $\Omega$

● 0 to 600 ohms Yes

— Input resistance (0 to 600 ohms) 10 M $\Omega$

● 0 to 6000 ohms No

