Analog Input Module 8 x I/V/PT 100, Floating (6ES5 460-7LA13)

Technical Specifications		
Number of inputs		8 voltage/current inputs or 8 inputs for PT 100
Floating		yes (not for PT 100)
Input ranges (rated values)		±50 mV; ±500 mV; PT 100; ±1 V; ±5 V; ±10 V; ±20 mA; +4 to 20 mA (can be selected for four channels at a time using range cards)
Input resistance		±50 mV: 10 M ±500 mV: 10 M PT 100: 10 M ±1 V: 90 k ; 2 ‰ ±5 V: 50 k ; 2 ‰ ±10 V: 50 k ; 2 ‰ ±20 mA: 25 ; 1 ‰ ±4 to 20 mA:31.25 ; 1 ‰
Type of connection for sensors		Two-wire connection; four-wire connection for PT 100
Digital representation of the input signal		12 bits plus sign or 13 bits two's complement (2048 units=rated value)
Measuring principle		integrating
Conversion principle		voltage-time conversion (dual-slope)
Integration time (adjustable for optimum noise suppression)		20 msec. at 50 Hz 16.6 msec. at 60 Hz
Coding time (Single coding for 2048 units)	maximum	60 msec. at 50 Hz 50 msec. at 60 Hz
Cycle time for - 8 inputs		0.48 sec. at 50 Hz
Permissible voltage between inputs and between inputs and central grounding point (destruction limit)	maximum	18 V or 75 V for max. 1 msec. and a duty cycle 1 : 20
Permissible voltage between the reference potential of a nonfloating sensor and the central grounding point	maximum	75 V DC /60 V AC
Error indication for - overranging		yes (exceeding 4095 units)
- wire break of the sensor line		can be designed for the ranges 50 mV, 500 mV and PT 100 (only measuring leads)
Wire-break test current (disconnectable)		configurable
Noise suppression for f=n x (50/60 Hz±1 %) n=1, 2, ...		
- common mode noise (V_s<1 V)	min.	100 dB
- series mode noise (peak noise value < rated value of the range)	min.	40 dB
Basic error limits		±50 mV : ±2 ‰ ±500 mV : ±1.5 ‰ PT 100 : ±2 ‰ ±1 V : ±3.5 ‰ ±5 V : ±3.5 ‰ ±10 V : ±3.5 ‰ ±20 mA : ±2.5 ‰ +4 to 20 mA : ±2.5 ‰
Operational error limits (0°C to 55°C)		±50 mV : ±5 ‰ ±500 mV : ±4.5 ‰ PT 100 : ±5 ‰ ±1 V : ±7.7 ‰ ±5 V : ±7.7 ‰ ±10 V : ±7.7 ‰ ±20 mA : ±6.7 ‰ +4 to 20 mA : ±6.7 ‰
Cable length - shielded	maximum	200 m (656 ft.); 50 m for± 50 mV
Front connector		46 pins
Isolation rating		according to VDE 0160
Rated isolation voltage (channel to channel) - tested with		500 V
Rated isolation voltage (channel to ⏚) - tested with		500 V
Current consumption - rated value - ripple V_{PP} - permissible range (including ripple)		24 V DC 3.6 V 20 to 30 V
Current consumption - from 5 V (internal) - from 24 V (external)	typically typically	0.15 A 0.1 A
Power losses of the module	typically	3 W
Weight	approx.	0.4 kg (0.88 lb.)