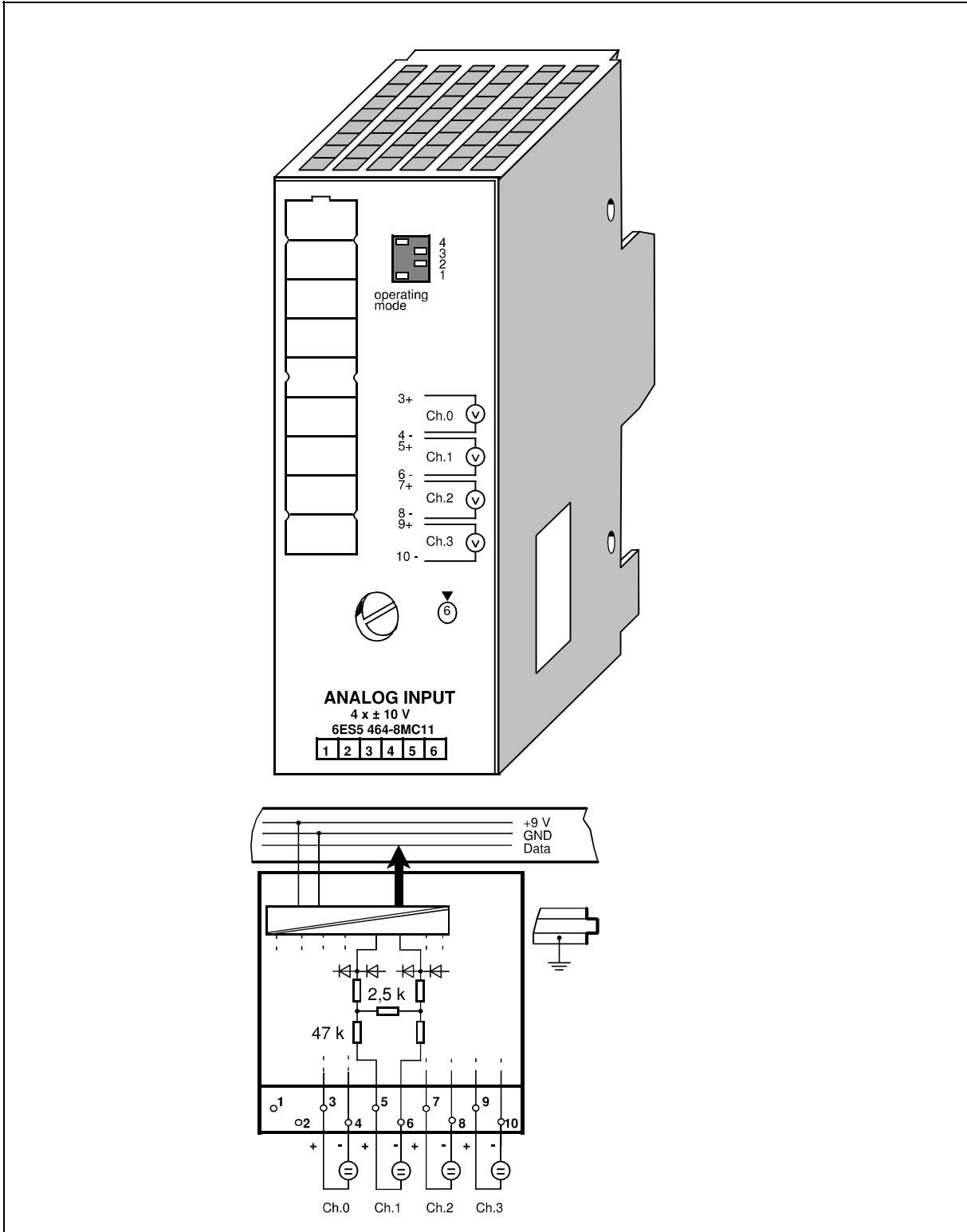


Analog Input Module 4 x ±10 V

(6ES5 464-8MC11)



Analog Input Module 4 x ± 10 V (continued)

(6ES5 464-8MC11)

Technical specifications			
Input ranges (rated values)		± 10 V	Noise suppression for $f=nx$ (50/60 Hz $\pm 1\%$); $n=1,2, \dots$
Number of inputs		1, 2 or 4 (selectable)	- common-mode rejection ($V_{pp}=1$ V) min. 86 dB
Galvanic isolation		yes (inputs to grounding point; not between inputs)	- series-mode rejection (peak value of noise < rated value of input range) min. 40 dB
Input resistance		50 k	
Connection method of sensors		two-wire connection	Basic error limits $\pm 0.2\%$
Digital representation of input signal		12 bits+sign (2048 units =rated value)	Operational error limits (0 to 60 °C) (32 to 140 °F) $\pm 0.45\%$
Measured value representation		two's complement (left-justified)	Single errors - linearity $\pm 0.05\%$ - tolerance $\pm 0.05\%$ - polarity reversal error $\pm 0.05\%$
Measuring principle		integrating	Temperature error - final value $\pm 0.01\%/K$ - zero point $\pm 0.002\%/K$
Conversion principle		voltage-time conversion (dual slope)	
Integration time (adjustable for optimum noise suppression)		20 ms at 50 Hz 16.6 ms at 60 Hz	Length of cable - shielded max. 200 m (660 ft.)
Encoding time per input			Supply voltage L+ none
- for 2048 units	max.	60 ms at 50 Hz	Connection of compensating box not possible
- for 4095 units	max. max. max.	50 ms at 60 Hz 80 ms at 50 Hz 66.6 ms at 60 Hz	Insulation rating VDE 0160
Permissible voltage difference			Rated insulation voltage (+9 V to \perp) 12 V AC - insulation group 1xB - tested with 500 V AC
- between inputs	max.	± 1 V	
- between inputs and central ground point	max.	75 V DC/60 V AC	Rated insulation voltage (inputs to +9 V) 60 V AC - insulation group 1xB - tested with 500 V AC
Permissible input voltage (destruction limit)	max.	50 V DC	Current consumption - from +9 V (CPU) typ. 70 mA
Fault indication for - range exceeded		yes (more than 4095 units)	Power loss of the module typ. 0.7 W
- sensor wire break		no	
- general indication of wire break		no	Weight approx. 230 g (8 oz.)