

Technical Data AEC-VS

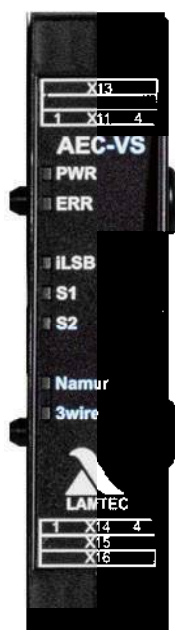


Fig. 1 AEC-VS photo

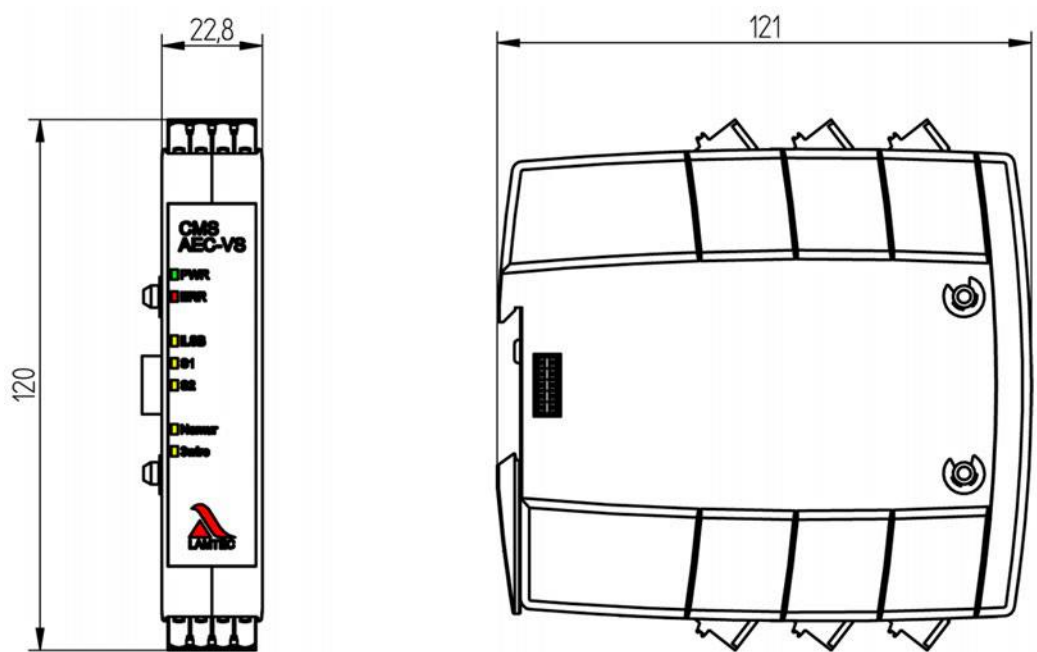


Fig. 2 AEC-VS dimensional drawing

Part number	
AEC-VS Actuator Extension Component - Variable Speed	Type 668R0230-XX*

* XX = depends on configuration

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Dimensions (h x w x d)	120 x 22.8 x 121 mm/ 4.72 x 0.90 x 4.76" in
Weight	0.160 kg / 0.35 lb
Power supply	24 VDC $\pm$ 20 % (via plug-in connection from MCC)
Current consumption	min: 50 mA max: 60 mA
Power consumption	2 W
Flammability	UL94 V-0

Signal inputs				
Namur Pulse input for connecting inductive sensors with Namur interface according to EN 60947-5-6	sensor supply: 8.2 V, max. 8.2 mA			
	conversion of the sensor recording into digital information: – inactive: >2.1 mA → digital signal ON – active/pulse: <1.2 mA → digital signal OFF – hysteresis: $\geq$ 0.5 mA frequency range: 5 ... 9400 pulse/min. (0.25 ... 157 Hz) pulse length: min. 200 μ s, cable length max. 200 m / 656.17 ft use shielded cable for cable lengths of 10 m / 32.81 ft or more			
Pulse input 3-wire Pulse input for connecting inductive sensors with 3-wire interface	sensor supply: 24 V			
	conversion of the input voltage into digital information: – inactive: 0 V → digital signal OFF – active/pulse: 24 V → digital signal ON – hysteresis: $\geq \frac{1}{4} U_{\max}$ frequency range: 5 ... 9400 pulses/min (0.25 ... 157 Hz) pulse length: min. 200 μ s, cable length max. 200 m / 656.17 ft use shielded cable for cable lengths of 10 m / 32.81 ft or more			
Analogue input 0/4 ... 20 mA for connecting speed transmitter 4 ... 20 mA or position detectors from servomotors with power interface 4 ... 20 mA.	range: 0/4 ... 20 mA, load 150 Ω , accuracy $\pm$ 1 %			
	over current limitation: approx. 25 ... 28 mA cable length max. 200 m / 656.17 ft use shielded cable for cable lengths of 10 m / 32.81 ft or more			
Digital inputs (not failsafe) ¹		24 VDC	120 VAC	230 ADC
	nomi- nal cur- rent	2.1 mA impedance 11 k Ω	2.1 mA impedance 75 k Ω	2.3 mA impedance 100 k Ω
	Due to the low inrush currents of the CMS, we recommend using appropriate contact material, e.g. gold-plated silver contacts or wiring the encoder contacts accordingly.			
	signal ON (min)	0.55 mA $\triangleq$ 6.9 VDC	0.97 mA $\triangleq$ 56 VAC	0.78 mA $\triangleq$ 77 VAC
	signal OFF (max)	0.27 mA $\triangleq$ 4 VDC	0.35 mA $\triangleq$ 21 VAC	0.35 mA $\triangleq$ 36 VAC
	electrically safe separation between the input and electronics, floating			
	cable length max. 200 m / 656.17 ft			

¹ Do not use for safety-relevant signals

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Outputs								
Analogue output 0/4 ... 20 mA or 0/2 ... 10 V Current output 0/4 ... 20 mA Voltage output 0/2 ... 10 V	same setpoint for both outputs can be set via parameters accuracy ±1.5 % use shielded connecting cable voltage ripple ≤50 mV _{pp} max. current 10 mA short circuit proof accuracy ±2 % of maximum value use shielded connecting cable							
	Digital output	<table><tr><td rowspan="2">fuse protection</td><td>resettable/electronic 4.1 A max. (voltage-dependent)</td></tr><tr><td>not resettable 5 A fast-acting</td></tr></table> <table><tr><td colspan="2">electrically safe separation from SELV power supply voltage of the CMS system</td></tr><tr><td colspan="2">cable length max. 200 m / 656.17 ft</td></tr></table>	fuse protection	resettable/electronic 4.1 A max. (voltage-dependent)	not resettable 5 A fast-acting	electrically safe separation from SELV power supply voltage of the CMS system		cable length max. 200 m / 656.17 ft
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Environmental Conditions		
Operation	Permitted temperature range	-30 ... +70 °C (condensation prohibited)
	Permitted humidity	5 % ... 95 % relative humidity
Transport/Storage	Permitted temperature range	-40 ... +80 °C (condensation prohibited)
	Permitted humidity	5 % ... 95 % relative humidity
Degree of protection	DIN EN 60529	IP20 (as long as all terminals are mounted)

EU Declaration of Conformity	
2014/35/EU	Low Voltage Directive
2014/30/EU	EMC Directive
2014/68/EU	Pressure Equipment Directive Kat. 4 Mod. B+D
(EU) 2016/426	Gas Appliance Regulation (GAR)
2011/65/EU	RoHS

NOTICE

The limits of the technical data must be strictly adhered to.