

Technical Data AEC-VS



Fig. 1 AEC-VS photo

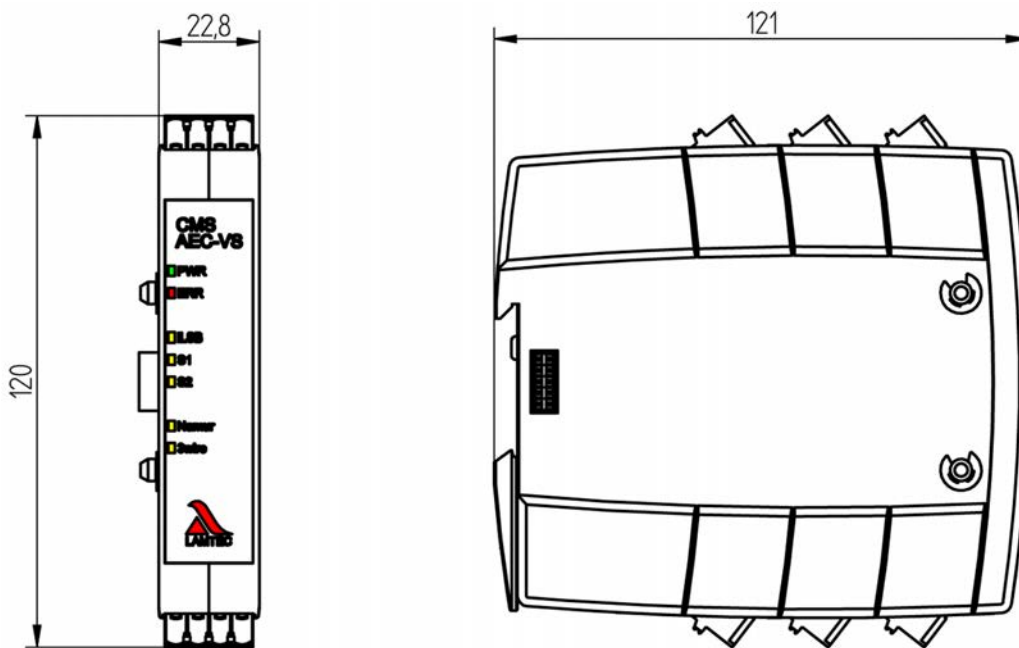


Fig. 2 AEC-VS dimensional drawing

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 \rightarrow digital signal ON – active/pulse: <1.2 mA \rightarrow 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 \rightarrow digital signal OFF – active/pulse: 24 V \rightarrow 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
	nominal current	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 $\pm 1.5\%$ use shielded connecting cable	
	voltage ripple $\leq 50 \text{ mV}_{\text{pp}}$ max. current 10 mA short circuit proof accuracy $\pm 2\%$ of maximum value use shielded connecting cable	
Digital output	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		

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)

NOTICE

The limits of the technical data must be strictly adhered to

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Order Information

Description/Type	Order no.
AEC-VS Actuator Extension Component - Variable Speed, power supply 24 VDC/1,5 W Module for controlling and monitoring frequency converters or actuators with 4 ... 20 mA input and 4 ... 20 mA feedback	668R0230...
A 10 – CONTROL VOLTAGE DIGITAL INPUT	Selection
120 VAC	120VAC
230 VAC	230VAC
24 VDC	24VDC
A 20 – CUSTOMER	Selection
STANDARD	S
A 30 – CUSTOMER	Selection
BLACK (STANDARD)	SW
A 40 – CONNECTOR SET	Selection
SCREW TERMINALS Connector set included	SC
SPRING TERMINALS Connector set included	FED
WITHOUT Connector set not included, must be ordered separately, see „Separate Connector Sets for AEC-VS“	0

Separate connector sets for AEC-VS

when attribute 40 „CONNECTOR SET“ = selection „0“

Description/Type	Order no.
Screw Terminals AEC-VS Control Voltage Digital Input 120/230 VAC	668R0081
Screw Terminals AEC-VS Control Voltage Digital Input 24 VDC	668R0082
Spring Terminals AEC-VS Control Voltage Digital Input 120/230 VAC	668R0091
Spring Terminals AEC-VS Control Voltage Digital Input 24 VDC	668R0092



The information in this publication is subject to technical changes.



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