

Technical Data AEC-TPS



Fig. 1 Figure of AEC-TPS

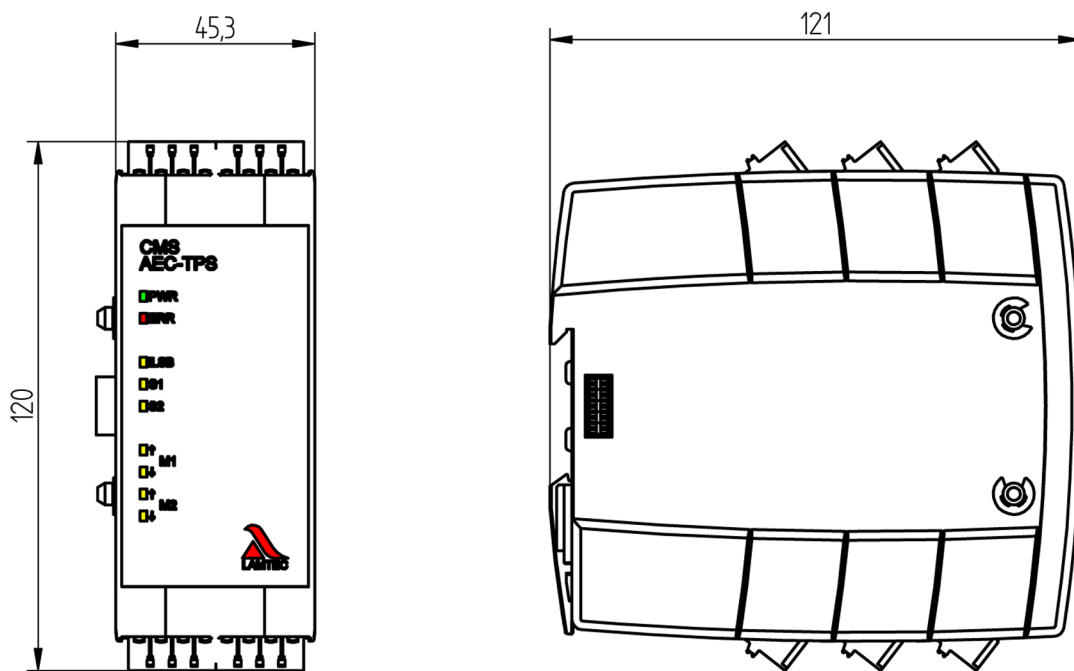


Fig. 2 AEC-TPS dimensional drawing

Item number

AEC-TPS Actuator Extension Component - DPS-Motor

Type 668R0200-XX*

* XX = dependent on the configuration

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AEC-TPS technical data					
Dimensions (H x W x D)	120 x 45.3 x 121 mm				
Weight	0.244 kg				
Power supply voltage: AEC-TPS	24 VDC \pm 20% (via plug-in connection from MCC)				
Motor outputs	230 VAC +10/-15 %, 47 - 63 Hz, 0.4 A max 120 VAC +10/-15 %, 47 - 63 Hz, 0.4 A max Caution semiconductor switching element: A minimum residual voltage is present even in the off-state Cable length max. = 200 m				
Maximum pre-fuse	1.6 A slow-blow for each output module				
	To be used in a grounded power line network only!				
Current consumption	min: 50 mA max: 60 mA				
Power consumption	2 W				
Analogue signal inputs	<table border="1"> <tr> <td>Poti 1:</td> <td>Conductive plastic potentiometer 1 kΩ ... 10 kΩ Qualified according to EN 12067-2 when using single-channel position acknowledgement Reference voltage 6.6 V</td> </tr> <tr> <td>Poti 2:</td> <td>Optional Conductive plastic potentiometer 1 kΩ ... 10 kΩ Reference voltage 6.6 V</td> </tr> </table>	Poti 1:	Conductive plastic potentiometer 1 k Ω ... 10 k Ω Qualified according to EN 12067-2 when using single-channel position acknowledgement Reference voltage 6.6 V	Poti 2:	Optional Conductive plastic potentiometer 1 k Ω ... 10 k Ω Reference voltage 6.6 V
Poti 1:	Conductive plastic potentiometer 1 k Ω ... 10 k Ω Qualified according to EN 12067-2 when using single-channel position acknowledgement Reference voltage 6.6 V				
Poti 2:	Optional Conductive plastic potentiometer 1 k Ω ... 10 k Ω Reference voltage 6.6 V				
Resolution	0.1 % from angle of rotation				
Repeating precision	Ratio control accuracy: – For annual check \pm 1.5% – Throughout the entire life time of 10 years \pm 5.3%				
Motor run time to TPS module	Not less than 30 s at 90°				
Potentiometer connection	Max. cable length = 200 m, shielded cable				
Flammability	UL94 V-0				

Environmental conditions

Operation	permissible temperature range	-30 ... +70 °C (condensation prohibited)
	permissible ambient humidity	5% ... 95% relative air humidity
Transport/storage	permissible temperature range	-40 ... +80 °C (condensation prohibited)
	permissible ambient humidity	5% ... 95% relative air humidity
Protection class	DIN EN 60529	IP20 (when all terminals are fitted)

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Operating altitude above sea level

≤ 2000 m above sea level	Without restriction
2000 m < z ≤ 5000 m above sea level	<p>Can be used with the following restrictions:</p> <ul style="list-style-type: none"> Reduction of the maximum ambient temperature according to the 'Temperature underload for use > 2000 m above sea level' diagram due to reduced cooling properties of the ambient air at altitudes above 2000 m and 120 VAC power supply to the inputs/outputs.

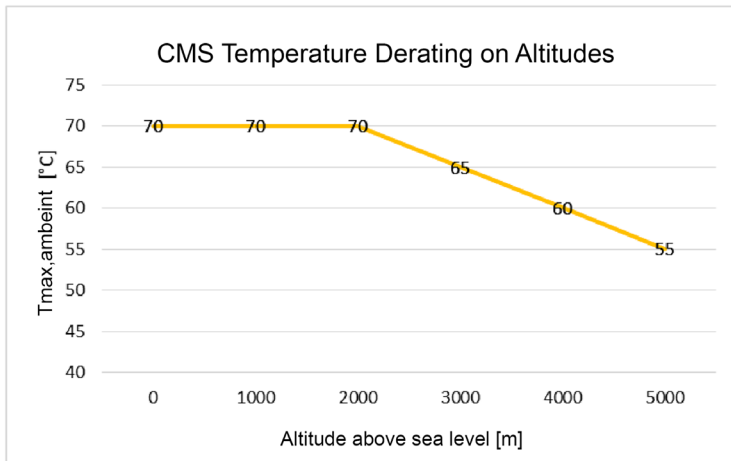


Fig. 3 Temperature underload for use >2000m above sea level



CAUTION!

Devices with 230 VAC input/output power supply not approved for use >2000 m

EU Declaration of Conformity

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

NOTICE

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

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Order Information

Description/Type	Order no.
AEC-TPS Actuator Extension Component-max 2 TPS actuators, power supply 24VDC/1,5W Module for controlling and monitoring 2 three-point step actuators with potentiometer for position feedback	668R0200...
A 10 – CONTROL VOLTAGE	Selection
120 ... 230 VAC	AC
A 20 – POSITION FEEDBACK	Selection
1 POTENTIOMETER	1PO
2 POTENTIOMETER	2PO
A 30 – CUSTOMER	Selection
STANDARD	S
A 40 – COLOR	Selection
BLACK (STANDARD)	SW
A 50 – 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-TPS”	0

Separate connector sets for AEC-TPS

when attribute 50 „CONNECTOR SET“ = selection „0“

Description/Type	Order no.
Screw Terminals AEC-TPS 2 Potentiometer	668R0083
Spring Terminals AEC-TPS 2 Potentiometer	668R0093

Approvals



The information in this publication is subject to technical changes.



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