

# Technical Data AEC-TPS



Fig. 1 Figure of AEC-TPS

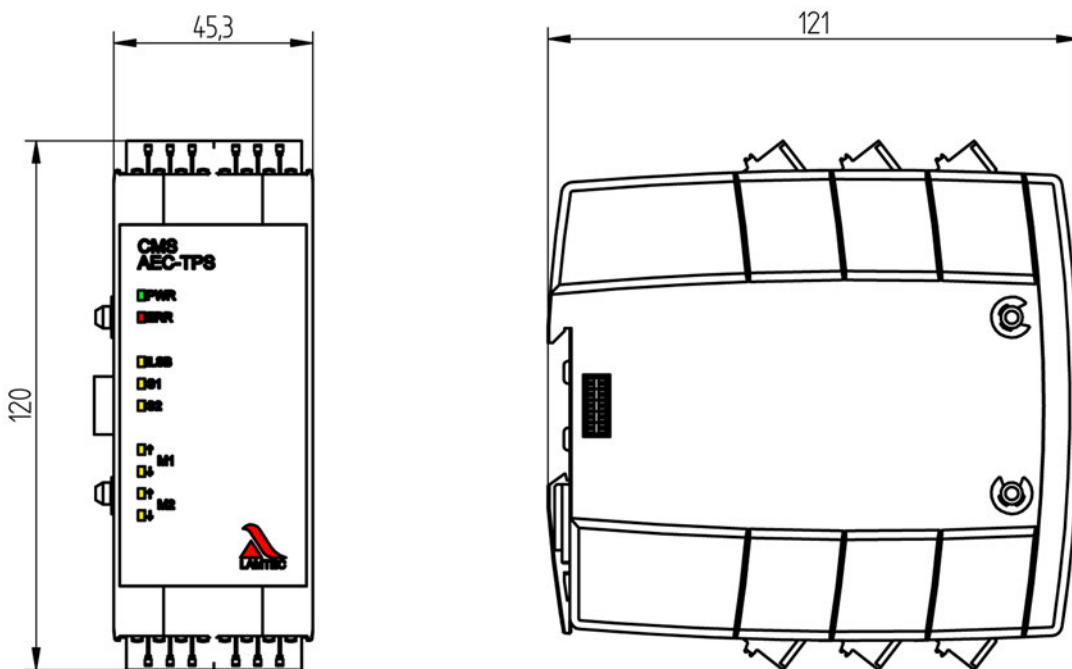


Fig. 2 AEC-TPS dimensional drawing

## Part number

AEC-TPS Actuator Extension Component - DPS-Motor

type 668R0200-XX\*

\* XX = dependent on the configuration

## Technical Data AEC-TPS

| Technical Data AEC-TPS           |   |   |
|----------------------------------|---|---|
| Dimensions (h x w x d)           | 120 x 45.3 x 121 mm / 4.72 x 1.78 x 4.76" in  |   |
| Weight                           | 0.244 kg / 0.54 lb  |   |
| Power supply:<br>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<br>120 VAC +10/-15 %, 47 - 63 Hz, 0.4 A max<br>Caution! Semiconductor switching element: a minimum residual voltage is present even when the device is switched off<br>cable length max. = 200 m / 656.17 ft |   |
| Maximum pre-fuse                 | 1.6 A slow-blow for each output module  |   |
| Current consumption              | min: 50 mA<br>max: 60 mA  |   |
| Power consumption                | 2 W   |   |
| Analogue signal inputs           | potentiometer 1:  | potentiometer, conductive plastic 1 k $\Omega$ ... 10 k $\Omega$ qualified according to EN 12067-2 when using a single channel position feedback signal Reference voltage 6.6 V |
|                                  | potentiometer 2:  | optional potentiometer, conductive plastic 1 k $\Omega$ ... 10 k $\Omega$ reference voltage 6.6 V   |
| Resolution                       | 0.1 % from angle of rotation  |   |
| Repeating precision              | electronic ratio control accuracy:<br>– for annual check $\pm$ 1.5 %<br>– across the entire life cycle of 10 years $\pm$ 5.3 %  |   |
| Running time motor to TPS module | not less than 30 s to 90°   |   |
| Potentiometer connection         | max. conductor length = 200 m / 656.17 ft shielded conductor  |   |
| Flammability                     | UL94 V-0  |   |

### Environmental Conditions

|                             |                               |   |
|-----------------------------|-------------------------------|---|
| <b>Operation</b>            | permissible temperature range | -30 ... +70 °C (condensation prohibited) /<br>-22 ... +158 °F |
|                             | permissible humidity          | 5 % ... 95 % relative humidity                                |
| <b>Transport/Storage</b>    | permissible temperature range | -40 ... +80 °C (condensation prohibited) /<br>-40 ... +176 °F |
|                             | permissible humidity          | 5 % ... 95 % relative humidity                                |
| <b>Degree of protection</b> | DIN EN 60529                  | IP20 (when all terminals are fitted)                          |

### 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.

# Technical Data AEC-TPS

## Order Information

| Description/Type   | Order no.        |
|--|------------------|
| AEC-TPS Actuator Extension Component-max 2 TPS actuators, power supply 24VDC/1,5W<br>Module for controlling and monitoring 2 three-point step actuators with potentiometer for position feedback | 668R0200...      |
| <b>A 10 – CONTROL VOLTAGE</b>  | <b>Selection</b> |
| 120 ... 230 VAC  | AC               |
| <b>A 20 – POSITION FEEDBACK</b>  | <b>Selection</b> |
| 1 POTENTIOMETER  | 1PO              |
| 2 POTENTIOMETER  | 2PO              |
| <b>A 30 – CUSTOMER</b>   | <b>Selection</b> |
| STANDARD   | S                |
| <b>A 40 – COLOR</b>  | <b>Selection</b> |
| BLACK (STANDARD)   | SW               |
| <b>A 50 – CONNECTOR SET</b>  | <b>Selection</b> |
| SCREW TERMINALS<br>Connector set included  | SC               |
| SPRING TERMINALS<br>Connector set included   | FED              |
| WITHOUT<br>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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