

Product information

slit actuator type EA-L(K)/S-***/*

-  Please take notice about the content of this manual!
-  To avoid damage and injury
-  Please retain this manual for later use (maintenance...)



Product description



Universal Technical data

Remote controlled electrical actuators for smoke and heat exhaust ventilation and daily ventilation for inside opening windows. Suitable with or without control panels from Stürmann GmbH & CO.KG

Voltage:	24 V DC
Stroke:	285, 485, 735 und 985 mm*
Cut-off:	electronic; "F"-contact, e. g. for sequence controlling
Ingress protection:	IP 20
Housing:	Aluminium pipe EV 1 anodized
Temperature range:	-5° C to 75° C
Fire detection:	68° C
Stability:	10.000 cycles
Temperature stability:	30 min./ 300°C
Condition of loading:	Open against nominal load, close with nominal load support

Connection cable:	Silicone cable 3 x 0,75 mm², light grey, length 2.000 mm
Switch-on duration::	30%
Triggering rate in case of blockade:	30 min every other minute

Applicable as ventilation and locking unit.

*Optional: stroke limiting ex works (see the data on the type plate).



Universal electrical connection

The dimension of the power supply has to be suitable for this actuator. Both voltage and current must agree with the specifications on the type label. Please check all cables, especially the cable cross section, before putting it into operation.

Cable cross section [mm²] = 0,019 x number of actuators x current of actuator [A] x cable length [m] (at a transformer-primary voltage of 230 V and temperature 25° C)

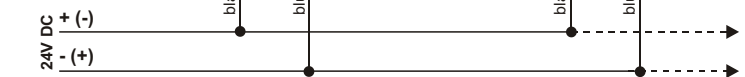
Please check the complete system before connecting it to the mains. The slit actuator is equipped with an internal electronic and mechanical overload cut-off to protect against overload and blocking. The overload cut-off works independently to the direction of run as well as to the position of the spindle.

Attention: The actuator may only be run by 24 V DC!



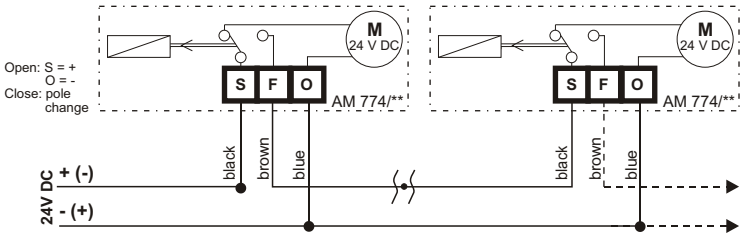
Universal electrical connection

Open: S = +
O = -
Close: pole change



Cascade connection:

Actuators run successively. Power supply and cable dimension must be calculated according to current consumption of one actuator. Stop function is not allowed. Please calculate the capacity of storage batteries according to the numbers of actuators.



After the actuators' cut-off the internal control electronic gives respectively the potential of (S) to the feedback signal contact (F). **Potential stepping (e. g. feedback signal) over "F"-contact (brown).**



Attention



Maintenance

Important: Please consider VDE 0833 for hazard alert systems, VDE 0100 for electrical system, DIN 18232 for SHEV-systems, the commandments of the local fire department and of the EVU for the mains connection as well as VBG 4 and ZH 1/494.

Please consider: Force operated windows may not be located within the reaching area of hands. Bruising danger! The commandments (ZH 1/494) of the association of commercial and industrial workers' compensation insurance carriers have to be considered!

The function of the actuator must be tested periodically by the customer. In case of defect the installer has to be informed at once. Please change defect parts immediately with origine parts. The actuator may just be opened by the manufacturer.

Material defects:

The device must be used as normally intended. The duration of the operating time and the ingress protection have to be observed, please inquire in case of doubt. The device is subject to natural wear and tear. In case of material defect claims, these shall be asserted in writing, stating the source of supply of the device. Prescribed time limits and further provisions with regard to claims for material defects exclusively correspond with our General Terms and Conditions .



The installation shall only be accomplished by specialists authorized from Stürmann GmbH & CO.KG.

With hoppers outward opening, one shearing action must be additionally applied to the window drive for limiting tilting motion of the window wing after the drive in unhinged, e.g. for cleaning window, so safeguarding the wing against hinging down. This stop position must be somewhat larger than stroke of the drive. The shearing action must be applied before beginning with drive mounting.

The slit actuator has to be mounted together with a lower bracket, that is stepless adjustable at the actuator's housing and a wing guide block. The position of the lower bracket conforms with the design of the wing. Clamp the bracket with a clamping piece and a fastening screw in the bracket guide, that is integrated at the actuator's housing.

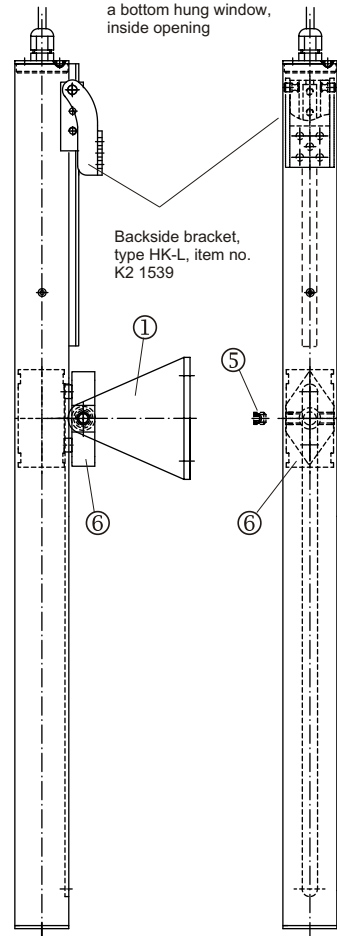
The window closes tight automatically. An exact positioning of the actuator is not necessary.



Installation

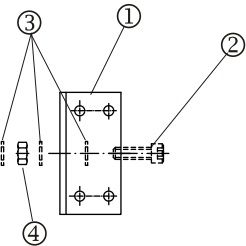
Assembling actuator - brackets

pictured example for:
Left side installation on a bottom hung window, inside opening



Fixing of angle

The angle, type AW-80-S, item no.: K2 1513 (1) can be screwed with the sliding block (6) depending on the mounting side either on the left side or on the right side of the wing.



For applications of e. g. three slit actuators on two bottom hung windows an additional angle, type AW 80-S is necessary for the middle actuator. These two angles have to be fixed on both sides of the sliding block (6). We recommend to synchronize the actuators for this application.

Fix the angle with an allen bolt M8 x 25 mm (2) (with locktite), 3 grommets d = 8,5 mm (3) and a hexagon nut M8 (4) (see drawing). (4) Jam the hexagon nut!

Attention: Jam the screw (2) with the nut! But the angle has to be turnable!

The headless screw M 8 x 8 mm (5) has to be installed at the side where no angle is mounted on the sliding block(6).

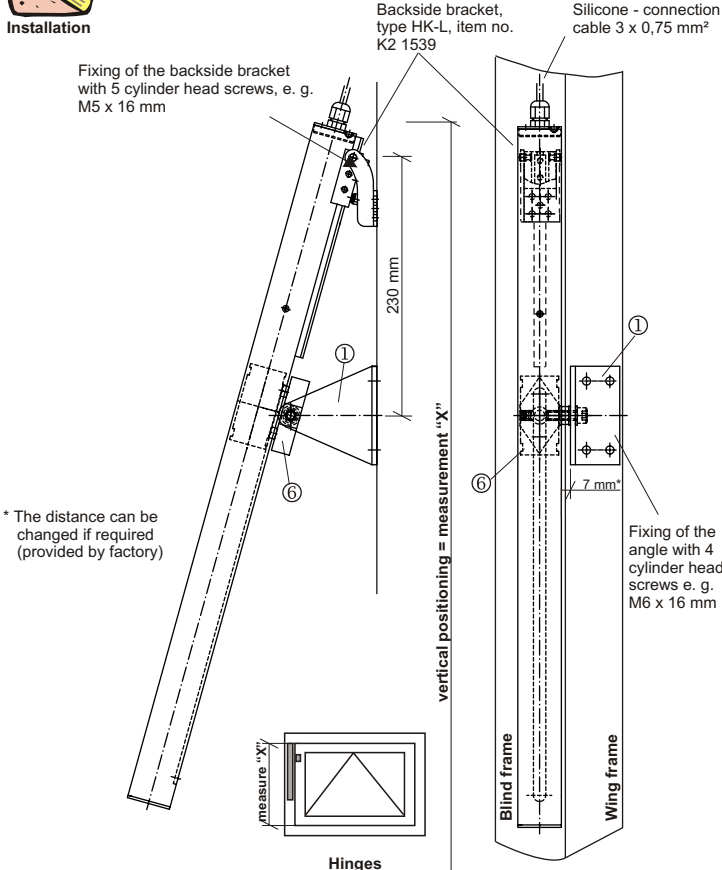
*It's recommendable to synchronise the actuator at this application.



Installation

Mounting assembly

Example:
Left side installation on a bottom hung window, inside opening



* The distance can be changed if required (provided by factory)

The vertical positioning of the actuator (measure "X") conforms with the required opening angle and with the opening radius of the wing (see diagram "technical detail for slit actuator").

Attention: Please consider the proportion between the force of the actuator and the weight of the wing!

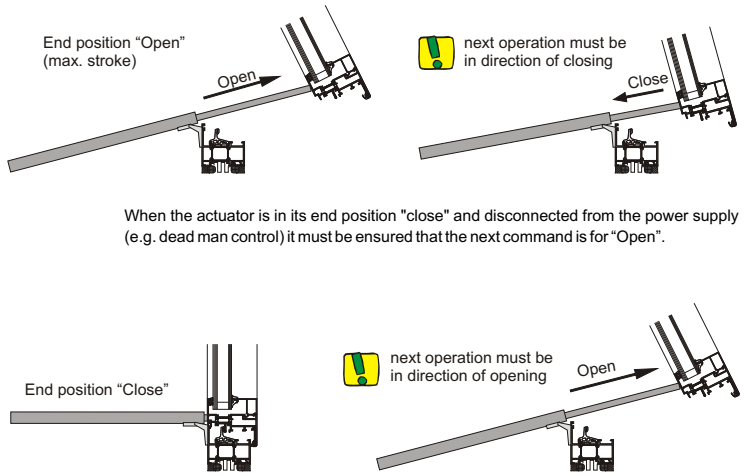
- Total length of the actuator: Stroke + 284 mm + 20 mm (cable screw)



Important information

The actuator is equipped with an electronic overload cut off and a limit dumping to protect the actuator and provide durability.

Attention: When the actuator is in its end position "open" and disconnected from the power supply (e.g. dead man control) it must be ensured that the next command is for "close".



The actuator will be destroyed when multiple triggering in end position "Open" or "Close" happens!



Disposal

According to the disposal law, this device must be disposed properly at the end of its life time.

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EC-Manufacturer's declaration

(according to article 4 section 2 EC-regulation 89/392/EEC)

We hereby declare, that the product listed below due to its conception and design and in the make, issued by us is, according to the enclosed notes on operation and mounting, designed to be inserted into a machine respectively installation. Its initial operation is prohibited until the machine or the installation, into which the mentioned part is to be mounted, fully complies with the EC-regulation 89/392/EEC changed by 91/368/EEC and 89/336/EEC changed by 93/31/EEC and 73/23/EEC.

Any adaption or alteration of which may be made to the product, without the prior consent of Stürmann GmbH & CO.KG, will make this declaration

Denomination: Slit actuator type EA-L(K)/S-***/*

For manufacturing or order number please see type plate

We certify conformity with applicable EC-regulations of the product stated above.

89/336/EEC changed by 92/31/(EEC), 89/392/EEC changed by 91/368/EEC, 73/23/EEC, EN50081-1, EN50082-1, EN 55014, DIN EN292/1 and EN292-2

For delivered respectively not ready-mounted or not yet operated components of an electrical smoke and heat ventilation exhaust system with a manufacturer's declaration according to EC- machine regulation the customer will be liable for proper mounting and initial operation as well as for drawing up of the declaration of conformity according to EC-regulations.

This declaration certifies compliance with the regulations mentioned, however does not include an assurance of specific characteristics.

Please comply with notes on security mentioned in the instructions.

Erkrath, 05-04-27



Managing director