

Auxiliary switch for damper actuators and rotary actuators

- two switches (SPDT)
- Adjustable switching points



Technical data

Electrical data	Auxiliary switch	2 x SPDT, 0...100%, adjustable
	Switching capacity auxiliary switch	1 mA...3 A (0.5 A inductive), DC 5 V...AC 250 V / 1 mA...0.5 A (0.2 A inductive; L/R = 3.4 ms), DC 5 V...DC 110 V
	Switching points auxiliary switch	Adjustable across the entire range of rotation 0...1 of the actuator. Presetting with scale possible.
	Connection auxiliary switch	Cable 5 m, 6 x 0.75 mm ² halogen-free
Safety data	Protection class IEC/EN	II, reinforced insulation
	Protection class UL	II, reinforced insulation
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	EMC	CE according to 2014/30/EU
	Low voltage directive	CE according to 2014/35/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	UL Approval	cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1
	Type of action	Type 1.B
	Rated impulse voltage auxiliary switch	4 kV
	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing
Ambient temperature	-30...50°C [-22...122°F]	
Storage temperature	-40...80°C [-40...176°F]	
Servicing	maintenance-free	
Weight	Weight	0.76 kg
Housing colours	Housing cover	grey
	Housing base	grey

Safety notes



- The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or aggressive gases interfere directly with the device and that it is ensured that the ambient conditions remain within the thresholds according to the data sheet at any time.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- Cables must not be removed from the device.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Mode of operation A carrier plate uses adaptation to make a positive fit on the shaft clamp (damper actuators) or on the position indication (rotary actuators) and transfers the position directly to the switching cams of the micro switches.

Switching points can be freely selected with an adjustment dial. The current switch position can be read off at any time.

Application The auxiliary switch unit is used for signaling the position or for exercising switching functions in any given angle setting.

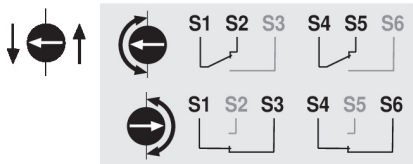
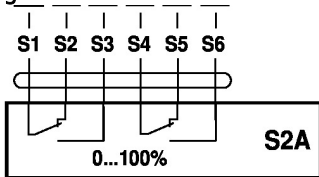
Simple direct mounting The auxiliary switches are attached directly by the shaft clamp (damper actuators) or on the position indication (rotary actuators). The guiding grooves between the housing and the switch ensure a tightly sealing fit.

Accessories

Mechanical accessories	Description	Type
	Adapter for auxiliary switch and feedback potentiometer	Z-SPA

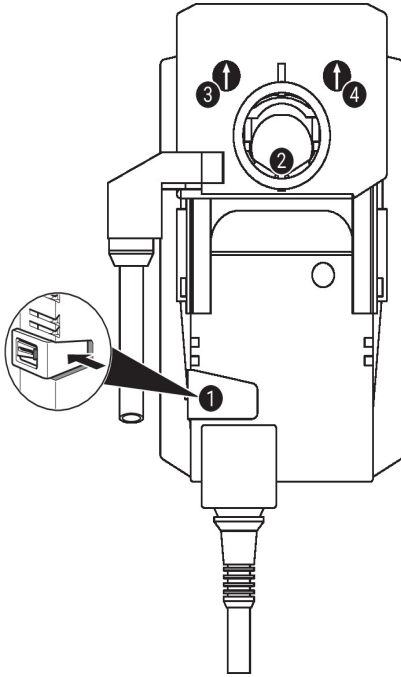
Electrical installation

Wiring diagrams



Cable colours:

- S1 = violet
- S2 = red
- S3 = white
- S4 = orange
- S5 = pink
- S6 = grey



Auxiliary switch settings

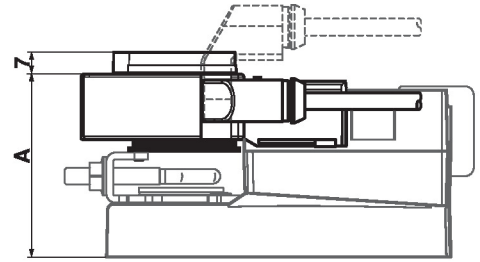
Note: Perform settings on the auxiliary switch only in deenergised state.

For the auxiliary switch position settings, carry out points ❶ to ❸ successively.

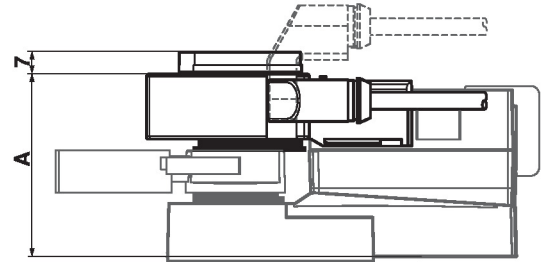
- ❶ **Manual override button**
Holding button pressed down (or fix): Gear train disengages.
Manual override is possible.
- ❷ **Shaft clamp**
Turn the shaft clamp of the actuator into the desired switching position of the auxiliary switch
- ❸ **Auxiliary switch - 1**
Turn rotary knob until the arrow points to the vertical line.
Turn the shaft clamp ❷ and consider the arrow direction of the auxiliary switch rotary knob at the same time.
The arrow direction always indicates the switching position (S1-S2 or S1-S3).
If the auxiliary switch should switch in the opposite direction, rotate the auxiliary switch rotary knob by 180°. Alternatively the switching position can be checked with a continuity tester on the cable of the auxiliary switch.
Release (or disengage) button ❶.
- ❹ **Auxiliary switch - 2**
Same procedure as for auxiliary switch 1 (step ❶ to ❸).

Dimensions

	A		A
TM..A., LM..A..	66	LMQ..A..	80
NM..A..	69	NMQ..A..	83
SM..A..	71	SMQ..A..	89
SMD..A..	71	NKQ..A..	87
GM..A..	78	GK..A..	94



	A		A
TR..A., LR..A..	66	LRQ..A..	80
NR..A..	69	NRQ..A..	83
SR..A..	71	GRK..A..	94
GR..A..	78		



	A
DR..A..	78
DRK..A..	94

