


Technical data

Electrical data	Auxiliary switch	2 x SPDT, adjustable 0...100%
	Switching capacity auxiliary switch	1 mA...3 A (0.5 A inductive), AC 250 V (II, reinforced insulation), 1 mA...0.5 A (0.2 A inductive; L/R = 3.4 ms), DC 110 V (II, reinforced insulation)
	Switching points auxiliary switch	Adjustable across the entire range of rotation 0...1 of the actuator. Presetting with scale possible.
	Connection auxiliary switch	cable 3 ft. [1 m], 6 x 0.75 mm ²
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
	Certification UL	cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1
	Mode of operation	Type 1.B
	Rated impulse voltage auxiliary switch	4 kV
	Pollution degree	3
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Ambient humidity	Max. 95% RH, non-condensing
	Servicing	maintenance-free
Weight	Weight	0.70 lb [0.20 kg]

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, insulation or aggressive gases interfere directly with the actuator and that is ensured that the ambient conditions remain at any time within the thresholds according to the data sheet.
- Only authorized 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.

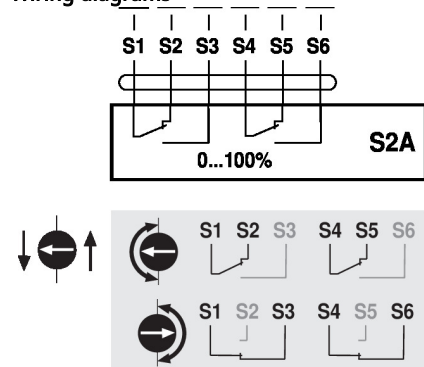
Simple direct mounting

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 colors:

S1 = violet

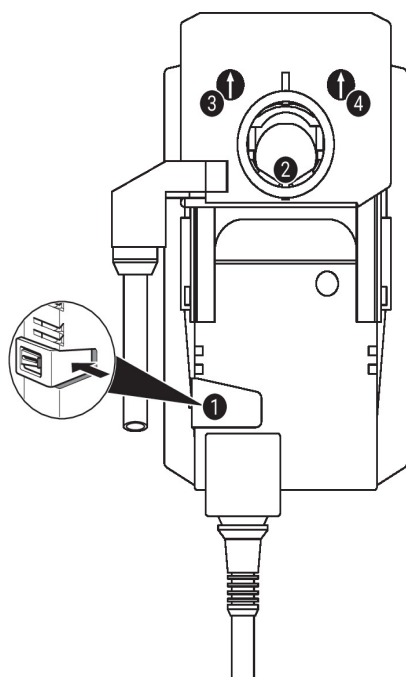
S2 = red

S3 = white

S4 = orange

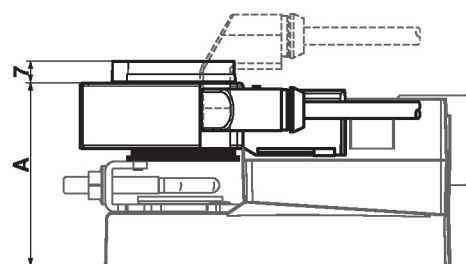
S5 = pink

S6 = grey

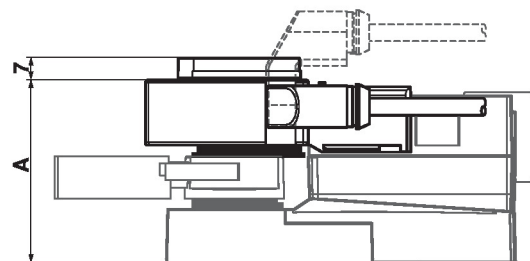
Operating controls and indicators


Dimensions
Dimensional drawings

	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

