

Overview

Auxiliary switches for damper actuators and rotary actuators

- One or two switches (SPDT, single-pole double-throw)
- Adjustable switching point





Overview of types								
	Type No. of switche	Cable s	Material	Туре	No. of switches	Cable	Material	
Housing colour, orange	S1A 1 x SPE	T 1 m, 3 x 0.75 mm ²	PVC	S2A	2 x SPDT	1 m, 6 x 0.75 mm ²	PVC	
Housing colour, grey				S2A GR	2 x SPDT	1 m, 6 x 0.75 mm ²	FRNC 1)	
				S2A/300 GR	2 x SPDT	3 m, 6 x 0.75 mm ²	FRNC 1)	
				S2A/500 GR	2 x SPDT	5 m, 6 x 0.75 mm ²	FRNC 1)	

¹⁾ FRNC for RobustLine and IP66/NEMA4 actuators necessary

of actuators						
	Standard actuators		RobustLine actuators	Very fast running actuators	SuperCap actuators	IP66/NEMA4 actuators
Damper actuators	TMA	SMA	NMP	LMQA ²⁾	GKA ²⁾	GMG
	LMA	GMA	SMP	NMQA ²⁾	NKQA ³⁾	SMQG
	NMA			SMQA ²⁾		
				SMDA		
Rotary actuators	TRA	SRA	SRP	LRQA	GRKA	GRG
	LRA	GRA		NRQA		DRG
	NRA	DGRA				
		DRA				

²⁾ For spindle clamp installation on the rear side of the actuator, it is imperative that a Z-SPA adapter be ordered (see «Accessories»)

³⁾ It is imperative that a Z-SPA adapter be ordered for all installations (see «Accessories»)

Technical data				
Functional data	Number of switches	See «Overview of types»		
	Switching capacity	1 mA 3 (0.5) A, AC 250V □		
	Switching point	Adjustable over the full range of rotation of the actuator (0 1). Can be preset by means of the scale.		
	Connection	See «Overview of types»		
Safety	Protection class	II Totally insulated □		
	Degree of protection	IP54 NEMA2, UL Enclosure Type 2		
	Low-voltage directive	CE according to 2006/95/EC		
	Certification	Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14 CULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02		
	Mode of operation	Type 1.B		
	Rated impulse voltage	4 kV		
	Control pollution degree	3		
	Ambient temperature	−30 +50°C		
	Non-operating temperature	−40 +80°C		
	Ambient humidity	95% r.h., non-condensating		
	Maintenance	Maintenance-free		
Dimensions / Weight	Dimensions	See «Dimensions» on page 3		
	Weight	S1A: approx. 200 g S2A (GR): approx. 250 g S2A/300 GR: approx. 520 g S2A/500 GR: approx. 720 g		

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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.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed 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.
- · The cable must not be removed from the device.
- The device contains electrical and electronic components and is not allowed to be disposed
 of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Application

The auxiliary switches are used to signal positions or to execute switching functions in any angular position.

Mode of operation

A form-fit engagement is created between a driver disc and the spindle clamp (Damper actuators) or on the position indicator (Rotary actuators), causing the position to be directly transferred to the trip cams of the microswitches.

The switching points can be freely selected within the specified range of rotation by means of a dial. The current switch position can be read at any time.

Installation

The auxiliary switches are attached directly to the spindle clamp (Damper actuators) or on the position indicator (Rotary actuators). The guiding grooves between the housing and the switch ensure a tightly sealing fit.

Accessories

Description

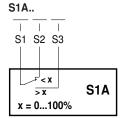
Mechanical accessories

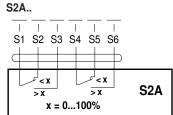
Adapter Z-SPA

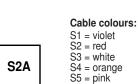
It is imperative that this adapter be ordered if an auxiliary switch is required for the damper actuators (Very fast running actuators and SuperCap actuators) and if at the same time the spindle clamp is installed on the rear side of the actuator (e.g. with short-axis installation). An adapter must be ordered for all installations with the NKQ..A.. actuators.

Electrical installation

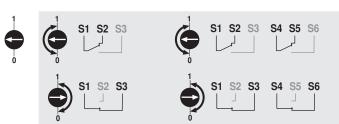
Wiring diagrams







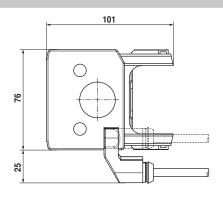
S6 = grey





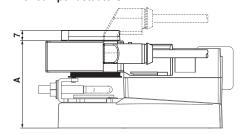
Dimensions [mm]

Dimensional drawings



with damper actuators

Α	Damper actuator	Α
66	LMQA	80
69	NMQA	83
71	SMQA	89
71	NKQA	87
78	GKA	94
	66 69 71 71	66 LMQA 69 NMQA 71 SMQA 71 NKQA



with rotary actuators

Rotary actuator	Α	Rotary actuator	Α
TRA, LRA	66	LRQA	80
NRA	69	NRQA	83
SRA	71	DRA	78
GRA	78	GRKA	94
DGRA	78		

