

# ExSwitch Auxiliary switch, retrofit

2 potential free contacts, adjustable on site, adaptable to **ExMax** actuators size S and M

Type	Technical data	Installation area
ExSwitch	Explosion proof, auxiliary switch with 2 adjustable contacts, potential free	Zone 1, 2, 21, 22
... - CT	Housing with seawater resistant coating	

## Product views

ExSwitch	Dimensions in mm	Inside view	Wiring diagram	Adaption to actuator

## Description

ExSwitch is an adaptable auxiliary switch for use in hazardous areas. It indicates end and interim position.

ExSwitch has 2 potential free contacts installed in a housing. Both contacts can be adjusted separately, even during operation.

ExSwitch fits on any ExMax actuator size S and M and can be mounted directly on the actuator's shaft. ExSwitch is delivered with a cable of approx. 1 m. For electrical connection inside hazardous areas, an Ex-e terminal box is required (see accessories ExBox).

## Technical data

<b>Adaption to actuator</b>	direct mounting to the actuator
<b>Function</b>	2 auxiliary switches with potential free contacts
<b>Max. current</b>	24 VAC/DC / 3 A – 250 VAC / 0.25 A min. 5 V / 4 mA
<b>Mechanical life</b>	2 × 10 <sup>6</sup> switch cycles
<b>Cable connection</b>	1 cable for each switch, approx. 1 m cable length, 3 × 0,75 mm <sup>2</sup> , cable diameter ~ Ø 7,2 mm
<b>Ambient temperature</b>	-40...+60 °C
<b>Accuracy</b>	< 5°
<b>Switch hysteresis</b>	approx. 5 %
<b>Housing material</b>	Steel, painted
<b>Housing material switches</b>	Plastic, Thermoplast
<b>Material switch contact</b>	Silver, gold-plated
<b>Delivery</b>	ExSwitch, squared connection (mechanical linkage to ExMax actuators), 4 screws, 1 adjustment bow for adjustment of switching position, position indicator

## Mounting and adjustment

- Put the mechanical linkage into the squared connection of the actuator.
- Mount the ExSwitch to the actuator and fix it with the 4 screws.
- Wire the actuator (Ex-e terminal box required!).
- Drive actuator to lower end position.
- Open the ExSwitch and adjust each switch with the adjustment bow. You have to open the screw to turn the cam switch, afterwards tighten the screw.
- Make a mechanical check that the switches are working in the required position.
- Lock the enclosure.

<b>ExMax side L 0°...5° HS 2 on</b> 	<b>ExMax side R 0°...5° HS 1 on</b> 
<b>ExMax side L 85°...90° HS 1 on</b> 	<b>ExMax side R 85°...90° HS 2 on</b> 
<b>ExMax side L</b> 	<b>ExMax side R</b> 

## Accessories

ExBox...	Terminal box Ex-e
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## Approbations

<b>Switches:</b>	
<b>ATEX directive</b>	2014/34/EU
<b>EC type-approved</b>	EPS 14 ATEX 1 766 X
<b>IECEx certified</b>	IECEx EPS 14.0092 X
<b>Approval for gas</b>	II 2 G Ex d IIC T6, T5 Gb
Types ...-CT	II 2 G Ex d IIB T6, T5 Gb
<b>Approval for dust</b>	II 2 D Ex tb IIIC T80°C T95°C Db
<b>IP protection</b>	IP66 in acc. with EN 60529
<b>Housing ExSwitch:</b>	
<b>IP protection</b>	IP43 in acc. with EN 60529

Subject to change!