

# RedSwitch-P Auxilliary switch, retrofit

2 potential free contacts, adjustable on site, adaptable to **RedPlus** linear actuators

Type	Technical data	Installation area
RedSwitch-P	Auxilliary switch with 2 adjustable contacts, potential free	Zone 2, 22
... - CT	Housing in „Amercoat“ marine painting	

## Product views

**RedSwitch-P**

**Dimensions in mm**

**Inside view**

**Wiring diagram**

**Adaption to actuator**

## Description

RedSwitch-P are adaptable auxilliary switches for use in hazardous areas for end and interim position indication.

RedSwitch-P have 2 potential free contacts installed in a housing which can be fitted directly to RedPlus linear actuators. Both contacts are adjustable. Adjustment during operation is possible.

RedSwitch-P are delivered with a cable of approx. 1 m. For electrical connection inside hazardous areas, a special terminal box is required (see accessories RedBox).

## Approval

<b>ATEX manufacturer's declaration</b>	II3G EEx nC IIT6
<b>Use in zone 2 and 22</b>	II3D IP 67 T80°C
<b>IP protection switch</b>	IP67 in acc. with EN 60529
<b>IP protection housing</b>	IP43 in acc. with EN 60529

## Mounting and adjustment

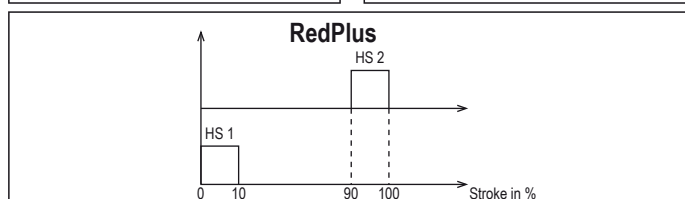
- Put the mechanical linkage into the squared connection of the actuator.
- Mount the RedSwitch to the actuator and fix it with the 4 screws.
- Wire the actuator (terminal box required!).
- Drive actuator to lower end position.
- Open the RedSwitch-P and adjust each switch with the adjustment bow. You 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.

## Settings depending on position of lifting rod

<b>Lifting rod out –</b>	Drive shaft rotates clockwise (switch area L):
HS 1 (top)	– switches from 1–2 to 1–3
HS 2 (bottom)	– switches from 1–3 to 1–2
<b>Lifting rod in –</b>	Drive shaft rotates counterclockwise (switch area R):
HS 1 (top)	– switches from 1–3 to 1–2
HS 2 (bottom)	– switches from 1–2 to 1–3

**RedPlus 0...10 % HS 1 on**

**RedPlus 90...100 % HS 2 on**



## Technical data

<b>Adaption to actuator</b>	direct mounting to the actuator
<b>Function</b>	2 auxilliary switches with potential free contacts
<b>Max. current AC/DC</b>	24 VAC/DC, 3 A – 240 VAC, 0,5 A
	min. 4 V, 1 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 × 0,5 mm <sup>2</sup> , cable diameter ~ Ø 4,5 mm
<b>Ambient temperature</b>	–40...+40 °C
<b>Accuracy</b>	< 5°
<b>Switch hysteresis</b>	approx. 5 %
<b>Housing material</b>	Steel, painted
<b>Housing material Switch</b>	Plastic, Thermoplast
<b>Material Switch</b>	Changeover contacts silver, gold-plated
<b>Delivery</b>	1 housing with 2 integral switches inclusive squared connection (mechanical linkage to RedPlus linear actuators), 4 screws, 1 adjustment bow for adjustment of switching position, position indicator

## Accessories

RedBox-SW	Terminal box
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**Subject to change!**

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