

ExSwitch-P Ex-d auxilliary switch, retrofit

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

Type	Technical data	Installation area
ExSwitch-P	Explosion proof, auxilliary switch with 2 adjustable contacts, potential free	Zone 1, 2, 21, 22
... - CT	Housing in „Amercoat“ marine painting	

Product views

ExSwitch-P	Dimensions in mm	Inside view	Wiring diagram	Adaption to actuator

Description

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

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

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

Explosion proof

ATEX	PTB 00 ATEX 1093 X
	IBExU 01 ATEX 1007 X
Use in zone 1 and 2	II2G Ex d IIC T6 for gas, mists and vapours
Use in zone 21 and 22	II2D IP66 T80°C for dust
IP protection switch	IP66 in acc. with EN 60529
IP protection housing	IP43 in acc. with EN 60529

Mounting and adjustment

- Put the mechanical linkage into the squared connection of the actuator.
- Mount the ExSwitch-P 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-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.

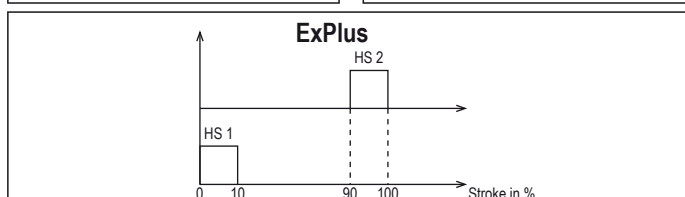
Technical data

Adaption to actuator	direct mounting to the actuator
Function	2 explosion proof auxilliary switches with potential free contacts
Max. current AC/DC	24 VAC/DC, 3 A – 240 VAC, 0,5 A
	min. 5 V, 4 mA
Mechanical life	2 × 10 ⁶ switch cycles
Cable connection	1 cable for each switch, approx. 1 m cable length, 3 × 0,75 mm ² , cable diameter ~ Ø 7,2 mm
Ambient temperature	-50...+60 °C
Accuracy	< 5°
Switch hysteresis	approx. 5 %
Housing material	Steel, painted
Housing material Switch	Plastic, Thermoplast
Material Switch	Changeover contacts silver, gold-plated
Delivery	1 housing with 2 integral Ex-d switches inclusive squared connection (mechanical linkage to ExPlus linear actuators), 4 screws, 1 adjustment bow for adjustment of switching position, position indicator

Settings depending on position of lifting rod

Lifting rod out –	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
Lifting rod in –	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

ExPlus	0...10 % HS 1 on	ExPlus	90...100 % HS 2 on



Accessories

ExBox-SW	Terminal box Ex-e
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Subject to change!

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