

ExSwitch Ex-d 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 are adaptable auxiliary switches for use in hazardous areas for end and interim position indication.
 ExSwitch have 2 potential free contacts installed in a housing which can be fitted directly to ExMax actuators size S and M. Both contacts are adjustable. Adjustment during operation is possible.
 ExSwitch 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).

Technical data

Adaption to actuator	direct mounting to the actuator
Function	2 explosion proof auxiliary switches with potential free contacts
Max. current AC/DC	24 VAC/DC / 3 A – 250 VAC / 0.25 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 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.

ExMax side L 0°...5° HS 2 on 	ExMax side R 0°...5° HS 1 on
ExMax side L 85°...90° HS 1 on 	ExMax side R 85°...90° HS 2 on
ExMax side L 	ExMax side R

Accessories

ExBox-...	Terminal box Ex-e
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Explosion proof

Switch:	
ATEX directive	2014/34/EU
EC type-approved	EPS 14 ATEX 1 766 X
IECEx certified	IECEx EPS 14.0092 X
Approval for gas	II 2 G Ex d IIC T6 Gb zone 1, 2
Approval for dust	II 2 D Ex tb IIIC T80°C Db zone 21, 22
IP protection	IP66 in acc. with EN 60529
Housing:	
IP protection	IP43 in acc. with EN 60529

Subject to change!

ExSwitch_en
V01 – 20-Apr-2016