



Ex-d auxilliary switches

adaptable to ExRun actuators, 2 potential free contacts, adjustable on site.

Type	Description	Installation area
ExSwitch-R	Explosion proof, auxilliary switches with 2 adjustable contacts, potential free, adaptable to all ExRun valve actuators.	Zone 1, 2, 21, 22

Views

ExSwitch	Dimensions in mm	View inside	Wiring diagram	Adaptation to actuator

Description

ExSwitch are adaptable auxilliary switches for use in hazardous areas for end and interim position indication. ExSwitch have 2 potential free contacts installed in an housing which can be fitted directly to ExRun actuators. Both contacts are adjustable. Adjustment during operation in Ex areas is possible.

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

Explosion proof

Approval acc. ATEX	PTB 00 ATEX 1093 X, acc. 94/9/EC (ATEX) IBExU 01 ATEX 1007 X
Use in zone 1 and 2	IIG EEx d II T6 for gas, mists and vapours
Use in zone 21 and 22	IIG T80°C IP66 for dust
IP-protection	IP 66 acc. EN60529

Mounting and adjustment

- Put adaptation (clutch) on shaft of actuator (included in delivery)
- Put sandwich plate between actuator and switch (included in delivery)
- Mount the ExSwitch to the actuator and fix it with the screws
- Wire the actuator (Ex-e terminal box required!)
- 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.

Technical data

Type	ExSwitch-R
Adaptable to actuator	type ExRun...
Function	2 explosion proof auxilliary switches, potential free contact
Max. current AC/DC	see electrical data
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	-40...+40°C
Housing material	Steel, painted, thermoplast for switches
Delivery	1 housing with 2 integral Ex-d switches, incl. mechanical linkage to ExRun..., 4 screws, 1 adjustment bow, position indicator

Position of lifting rod out (standard)

Drive shaft rotates clockwise – Position of switch area „L“

HS 1 (top) – switch from 1-2 to 1-3

HS 2 (bottom) – switch from 1-3 to 1-2

Position of lifting rod in (invert)

Drive shaft rotates anti-clockwise – Position of switch area „R“

HS 1 (top) – switch from 1-3 to 1-2

HS 2 (bottom) – switch from 1-2 to 1-3

Electrical data

	30 V	250V	400 V
Voltage			
Ohmic at AC	7 A	5 A	3 A
Inductive at AC	cos φ = 0,6 5 A	3 A	2 A
Ohmic at DC	7 A	0,4 A	
Inductive at DC	L/R = 3μs 5 A	0,03 A	

