

# RK Ex limit switches

with ball-operated microswitch

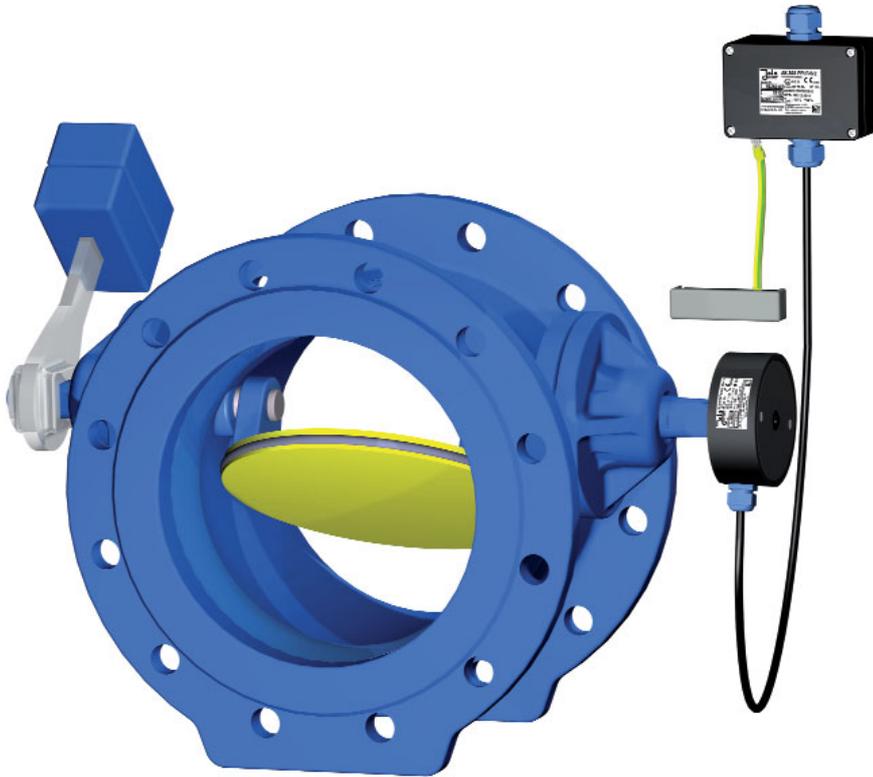


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# RK 1/K/.../Variante 0/Ex-... limit switches

**Application example:  
indication of a predetermined position of a butterfly valve**



## **Areas of application, mounting and mode of operation of the RK Ex limit switches**

The RK Ex limit switches are particularly suitable where the use of conventional limit switches is questionable because of severe working conditions, e.g. in damp or dirty environment.

The mounting of the RK Ex limit switches has to be effected via a through hole situated in the middle of the body of the switch.

Through this hole, the limit switch has to be mounted on a horizontal metallic shaft of the customer's device which permits a rotation of max.  $\pm 180^\circ$ . It is the rotational motion of this shaft that activates the switching process.

In order to prevent an incorrect functioning of the limit switch and a cable break, a sufficient cable length must be left. After the limit switch has been set on the shaft, it has to be fixed by the screw placed inside the body of the switch.

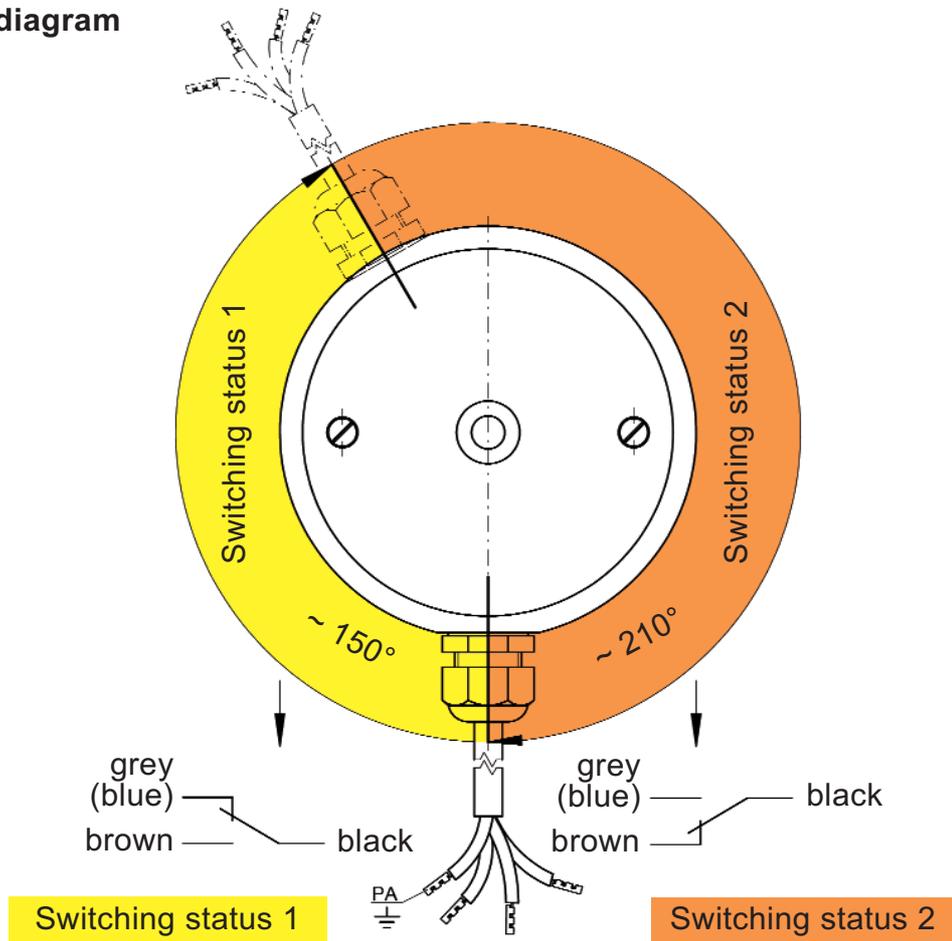
The RK Ex limit switches are fitted with a microswitch (changeover contact) as electrical switching element, and this element is activated by an internal metal ball. Switch-over takes place as shown on functional diagram on page 21-2-3.

**The limit switches are not suitable for use on rotating shafts.**



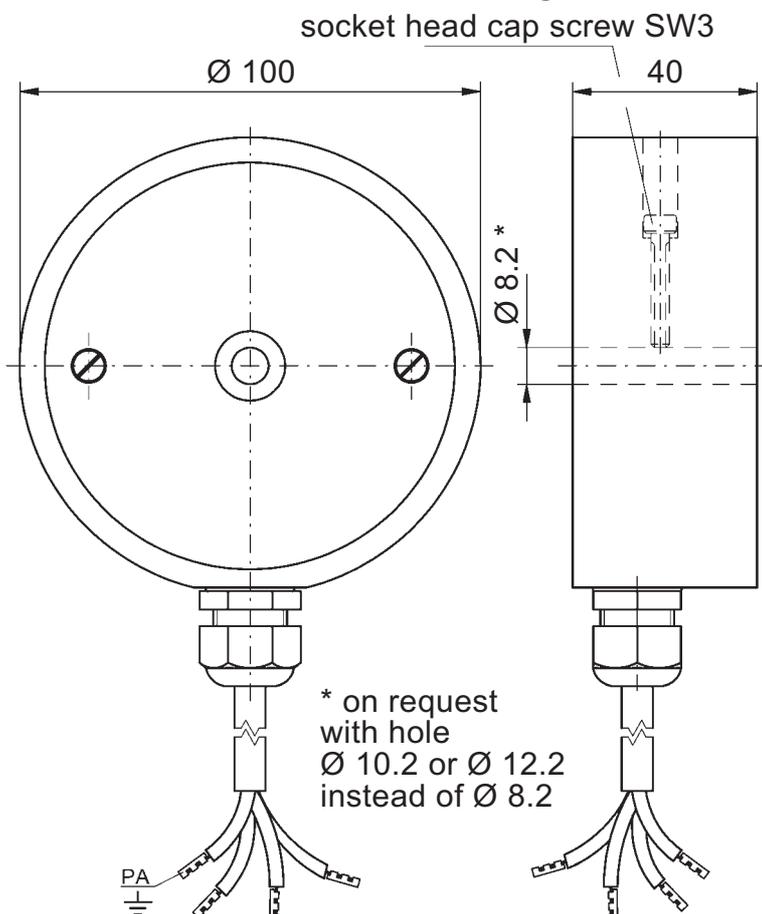
Technical data	RK 1/K/RN/Variante 0/Ex-1G ⊕ II 2 G Ex ia IIC T6 Gb	RK 1/K/PURLF/Variante 0/Ex-0G ⊕ II 1 G Ex ia IIC T6 Ga
Application	for use in intrinsically safe circuits in potentially explosive atmospheres zone 1 and 2;   zone 0, 1 and 2; version for use in mines susceptible to firedamp on request EC type examination certificate INERIS 12ATEX0059 Certificate of conformity IECEX INE 12.0036	
Operating principle	ball-operated microswitch, potential-free changeover contact	
Option	diodes (= variant 1) or resistors (= variant 2) (variant 0 = without neither diodes, nor resistors)	
Recommended applicat.	via Jola Ex protection relais	
Housing	antistatic (conductive) PP, approx. 100 mm Ø x 37 mm	
Protection class	IP65	
Connecting cable	A05RN-F cable, black, 4 G 0.75	antistatic PURLF cable (with external conductive PUR sheath), black, 4 G 0.75
Connecting cable length	sealed in the housing, other connecting cable on request 2 m; other cable length on request	
Mounting orientation	vertical	
Temperature range	– 20°C to + 60°C	
Pressure resistance	for pressureless applications only, use only under atmospheric conditions	
Mounting	mounting only on a horizontal metallic shaft, which allows a rotation of max. +/- 180°	

## Functional diagram



Switching occurs by rotation to the right, clockwise, when looking at the front-side (cover with screws).

## Dimensional drawing



**The units described in this documentation may only be installed, connected and started up by suitably qualified personnel!**

**Subject to deviations from the diagrams and technical data.**

**The details in this brochure are product specification descriptions and do not constitute assured properties in the legal sense.**