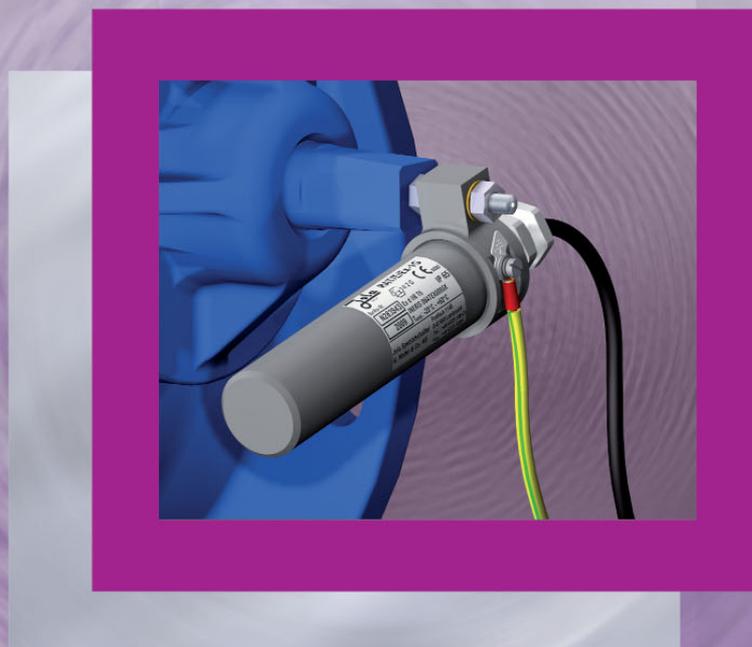


# RAT Ex limit switches

with ball-operated microswitch



**Jola Spezialschalter GmbH & Co. KG**  
Klostergartenstr. 11 • 67466 Lambrecht (Germany)  
Tel. +49 6325 188-01 • Fax +49 6325 6396  
contact@jola-info.de • www.jola-info.de



# RAT/E/Ex-1G II 2 G Ex d IIB T6 Gb and RAT/H/E/Ex-1G II 2 G Ex d IIB T4 Gb limit switches



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

The RAT Ex limit switches are recommended for use wherever the use of conventional flameproof encapsulated limit switches is difficult due to demanding ambient conditions. Such conditions include, for example, wet or soiled environments.

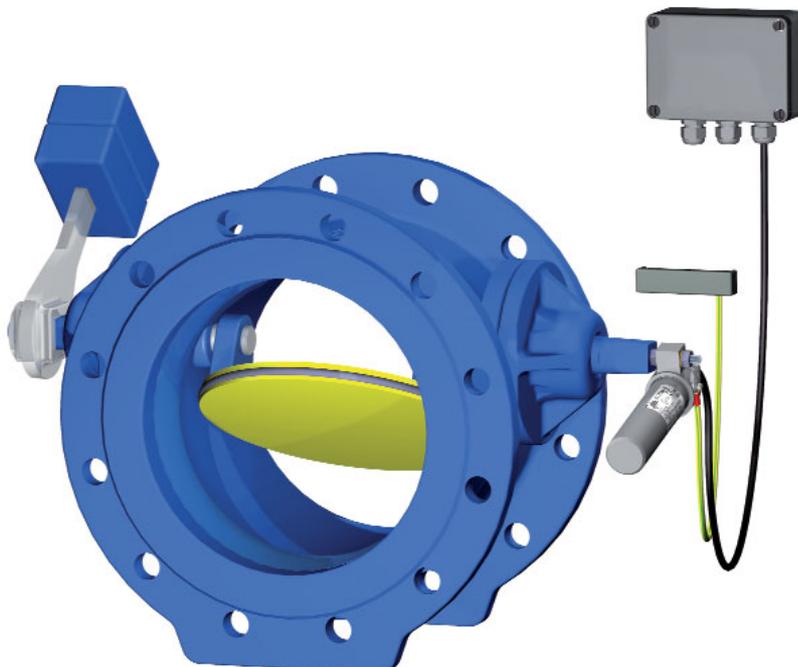
The RAT Ex limit switch is mounted via a borehole in the head section of the unit.

This borehole is used to secure a customer-supplied metallic horizontal shaft, but this shaft should not rotate away from the horizontal plane by more than  $\pm 90^\circ$ . 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.

The RAT 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 when the limit switch is positioned approx.  $17^\circ \pm 8^\circ$  above or approx.  $3^\circ \pm 3^\circ$  below the horizontal plane.

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

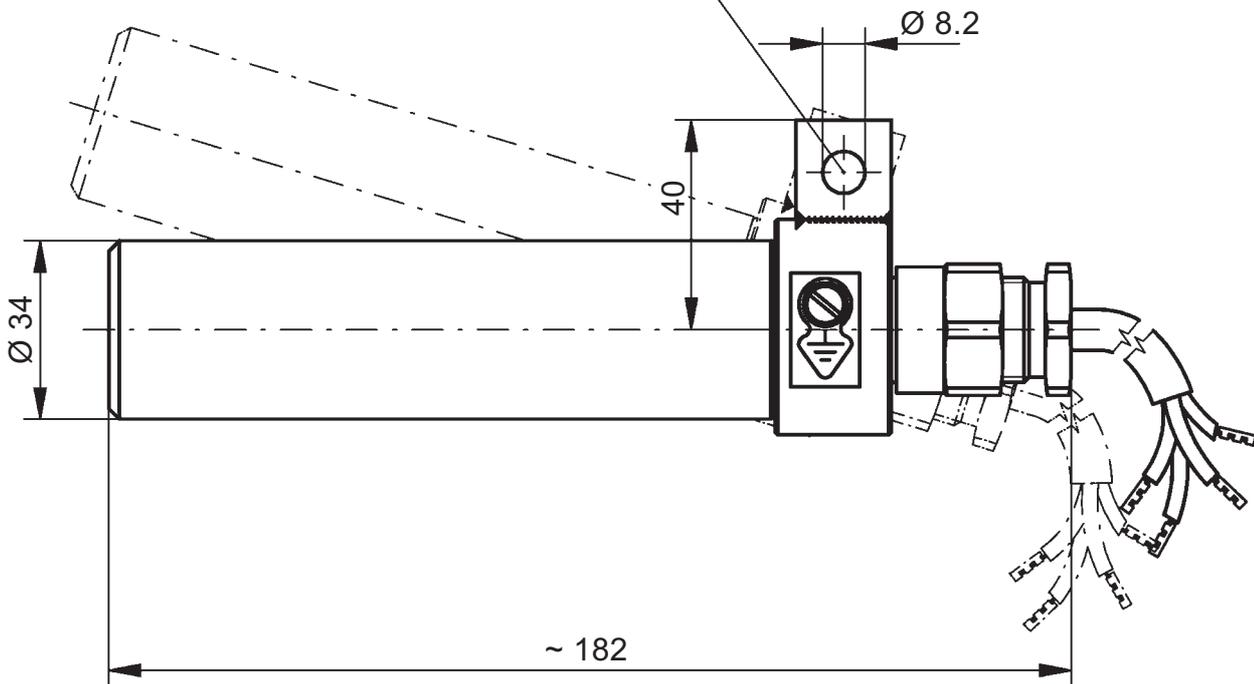
## Application example: indication of a predetermined position of a butterfly valve



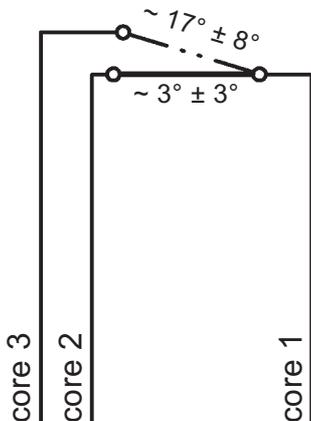
Technical data	RAT/E/Ex-1G Ⓔ II 2 G Ex d IIB T6 Gb	RAT/H/E/Ex-1G Ⓔ II 2 G Ex d IIB T4 Gb
Application	for use in potentially explosive atmospheres zone 1 or 2; EG type examination certificate INERIS 06ATEX0005X	
Switching voltage	between AC/DC 24 V and AC/DC 250 V	
Switching current	between AC 20 mA and AC 3 (1) A or between DC 20 mA and DC 100 mA	
Switching capacity	max. 350 VA	
Operating principle	ball-operated microswitch, potential-free changeover contact	
Housing material	stainless steel 316 Ti	
Cable entry	nickel-plated brass, protection class IP65	
Connecting cable	PUR 4 G 0.75	
Connecting cable length	2 m, other cable length on request	
Temperature range	– 20°C to + 60°C	– 20°C to + 85°C
Pressure resistance	for pressureless application only, for use under atmospheric conditions only	
Mounting instructions	to be mounted only on a metallic horizontal shaft which may only traverse an angle of max. +/- 90° from the horizontal position; the cable must point to the right from the point of view of the observer, the ground terminal must point towards the observer and the fastening block must point upwards.	

## Dimensional diagram and switching action representation

Fastening borehole for shaft with a diameter of 8 mm (standard), on request also for shaft with a diameter of 6 mm, 10 mm or 12 mm.



Contact switches over at



**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.**