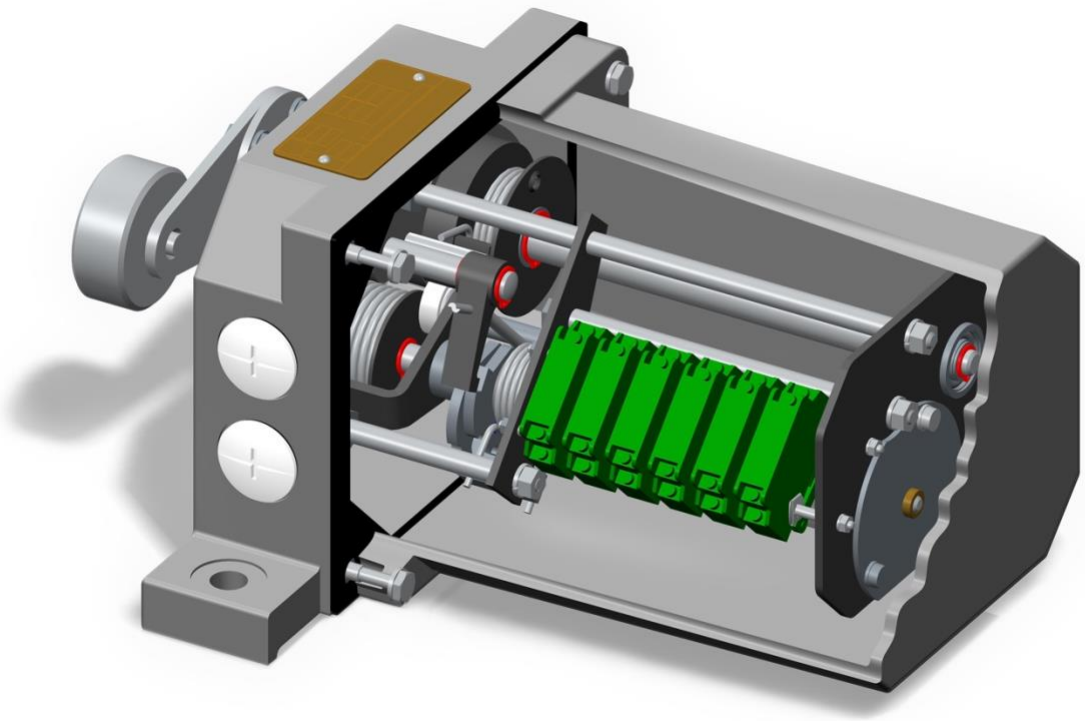
Elektrotechnische Geräte Böhlitz-Ehrenberg GmbH

Lever Limit Switches
HNS 806/826 and HNS 007
Switches with separate airbreak circuit breakers



We offer:

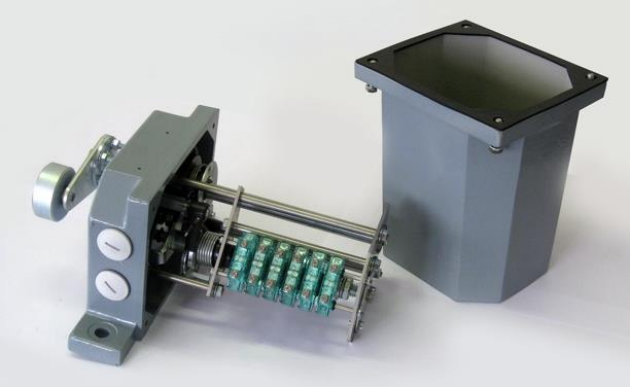
- **Sale of individual switches and small series with short delivery times**
- **Support in modifying the circuit diagrams for flexible use of the lever limit switches in your systems**
- **Spare parts and replacement service, including modernisation of existing systems with our range of switches**

Elektrotechnische Geräte Böhlitz-Ehrenberg GmbH

Lever Limit Switches HNS 806/826 and HNS 007 from EGB

- Precession due to their individual switching elements switching in air -

Lever limit switches are used as main and control current limit switches to automatically switch off electrically driven devices when the limit position is exceeded. The switch is actuated by deflection (approach to the switching ruler) of the switching lever, which causes the switching shaft with switching disc to rotate. This rotary movement deflects a roller lever to the side, which triggers the quick-action switch.



Advantages:

- Switch can be used as a safety or working switch
- Rugged design
- High intrinsic safety level
- Any operating position possible
- Switcher lever can be rotated through 90° from each position
- Switching elements can be easily replaced
- Low maintenance input

Specification	HNS 806	HNS 826	HNS 007
Insulation voltage	400 V	400 V	400 V
Thermal long-distance current	10 A	10 A (useful for SPS)	25 A
Rated frequency	50 Hz	50 Hz	50 Hz
Connection lead cross section	0,75 bis 2,5 mm²	0,75 bis 2,5 mm²	2,5 bis 16 mm²
Max. number of switching elements	8	8	6
Max. inrush current	AC-15, 230 V / I=1,0 A DC-13, 110 V / I=0,5 A		AC- 25 A/ 380 V
Intrinsic safety: housing	normal IP 54, special purposes IP 56 and IP66		
elements	connections IP 00, contacts IP 40		
Weight	8,5 kg	8,5 kg	12 kg
Life	100.000 alternations		
Driving speed	max. 100 m/min, min. 10 m/min, when speed falls as low as 0,5 m/min the breaking capacity decreases and the safety circuit is applied		
Max. admissible switch Lever angle	80°		
Switch lever position	can be rotated through 90° from each position		
Actuating moment	9 Nm when switching operation is actuated		
Switching angle without safety circuit	20° +/-5°		
Switching angle with safety circuit	45° +/-5°		
Temperature area	-30 °C bis +80 °C		
Operating position	any position possible		
Cable entry	4 x M 25 x 1,5	4 x M 25 x 1,5	4 x M 32 x 1,5
Fastening	two M 12 hexagon bolt		
Test: - switch	verified to DIN VDE 0660 T200, DIN VDE 0113 T1 and DIN 40050		
- switching elements	in addition to DIN 57113/VDE 0113 § 7.1.3		

Elektrotechnische Geräte Böhlitz-Ehrenberg GmbH

Cam Disk Arrangement

By changing the disk on the camshaft six cam disk arrangements can be obtained, with constitute the basis for the diagrams. Switch positions 1 – 0 – 2 are possible.

Rotational Direction of Switching Spindle

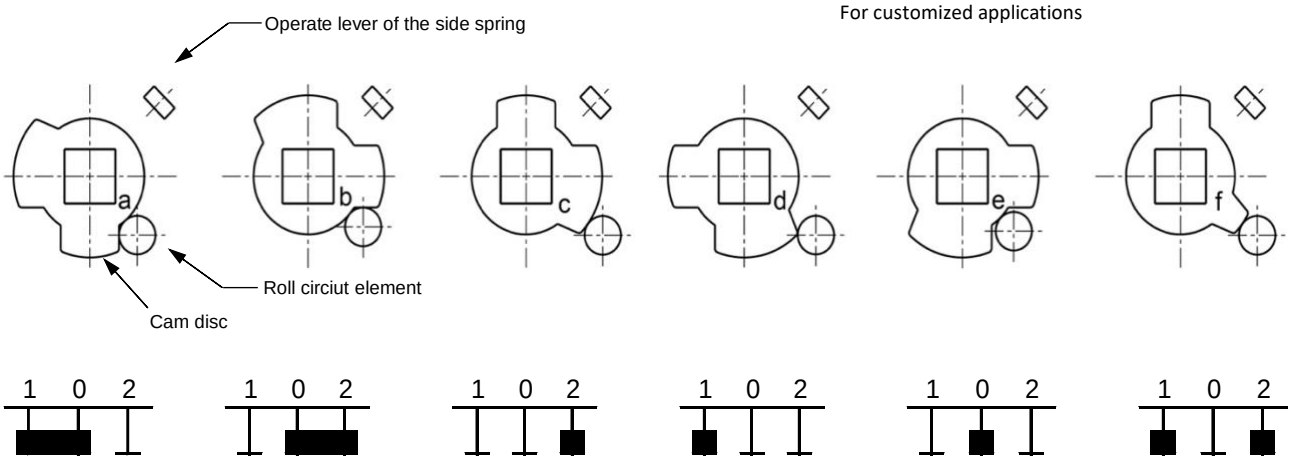
Switching spindles and camshaft counterrotate. The switching elements are numbered 1 through max. 8. Numbering starts from where the drive is.

Diagrams

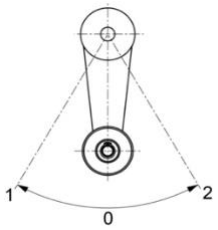
The switches are supplied with max. 6 or 8 cam disk. When plugging the cam disks into the camshaft according to the diagram pay attention, that the position 1 of the diagram must be the first cam disk after the drive.

Camshaft with cam disk in zero position

Letter: Fix position as such as possible for cam disc
For customized applications



Turn movement of the switching spindle



Example for a standard order

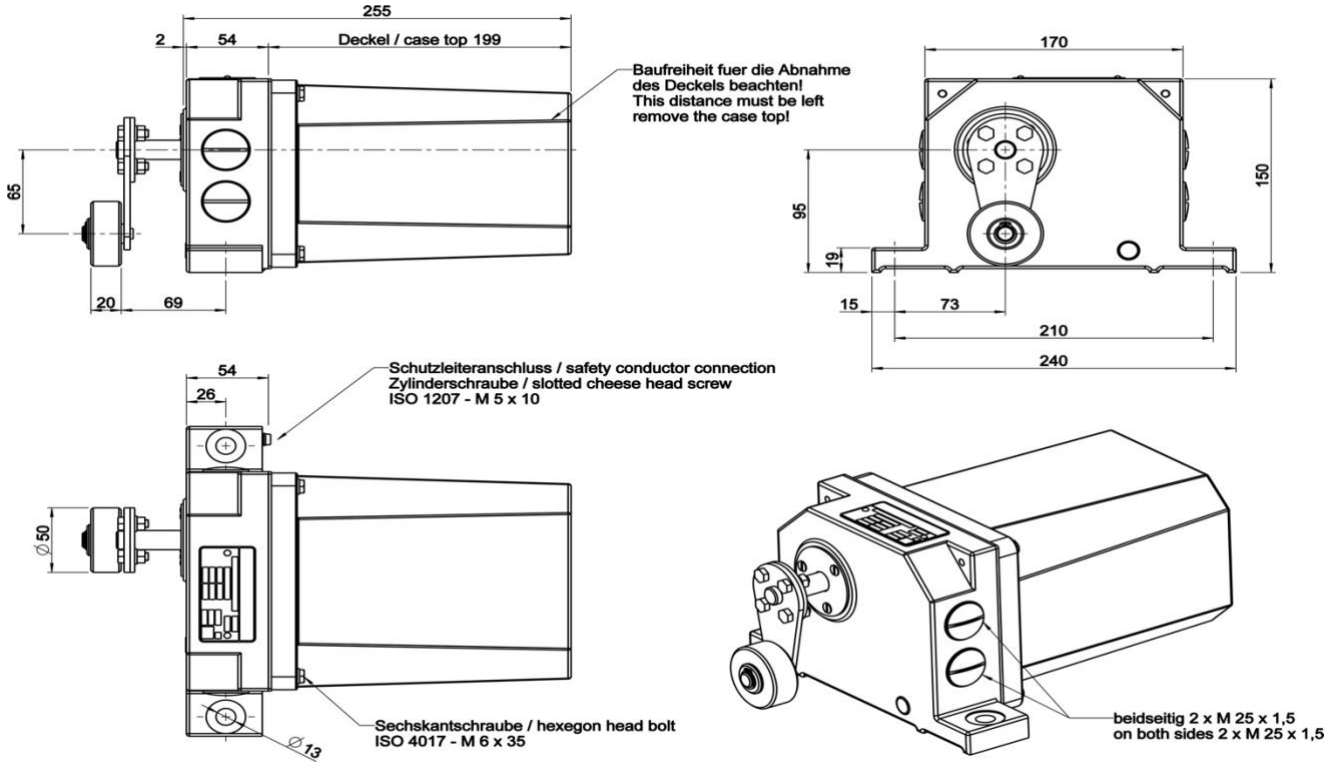
HN	S 806	S11	IP 56
Type			
Circuit conduct			
Circuit diagram			
Intrinsity safetly			

or for applications demand by customer

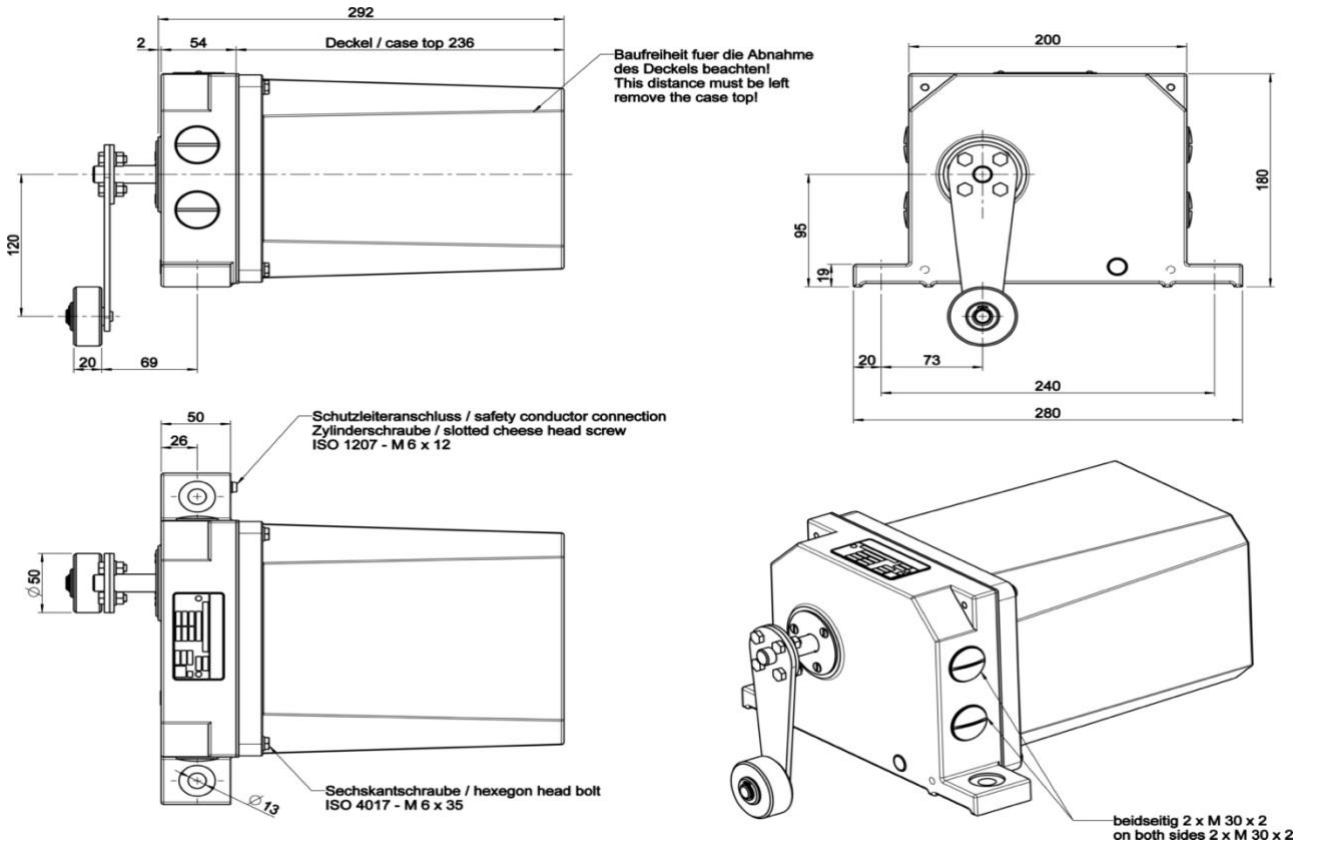
HN	S 826	a-c-a-b-b-e	IP 56
Type			
Circuit conduct			
Circuit diagram			
Intrinsity safetly			

Elektrotechnische Geräte Böhlitz-Ehrenberg GmbH

HNS 806/826

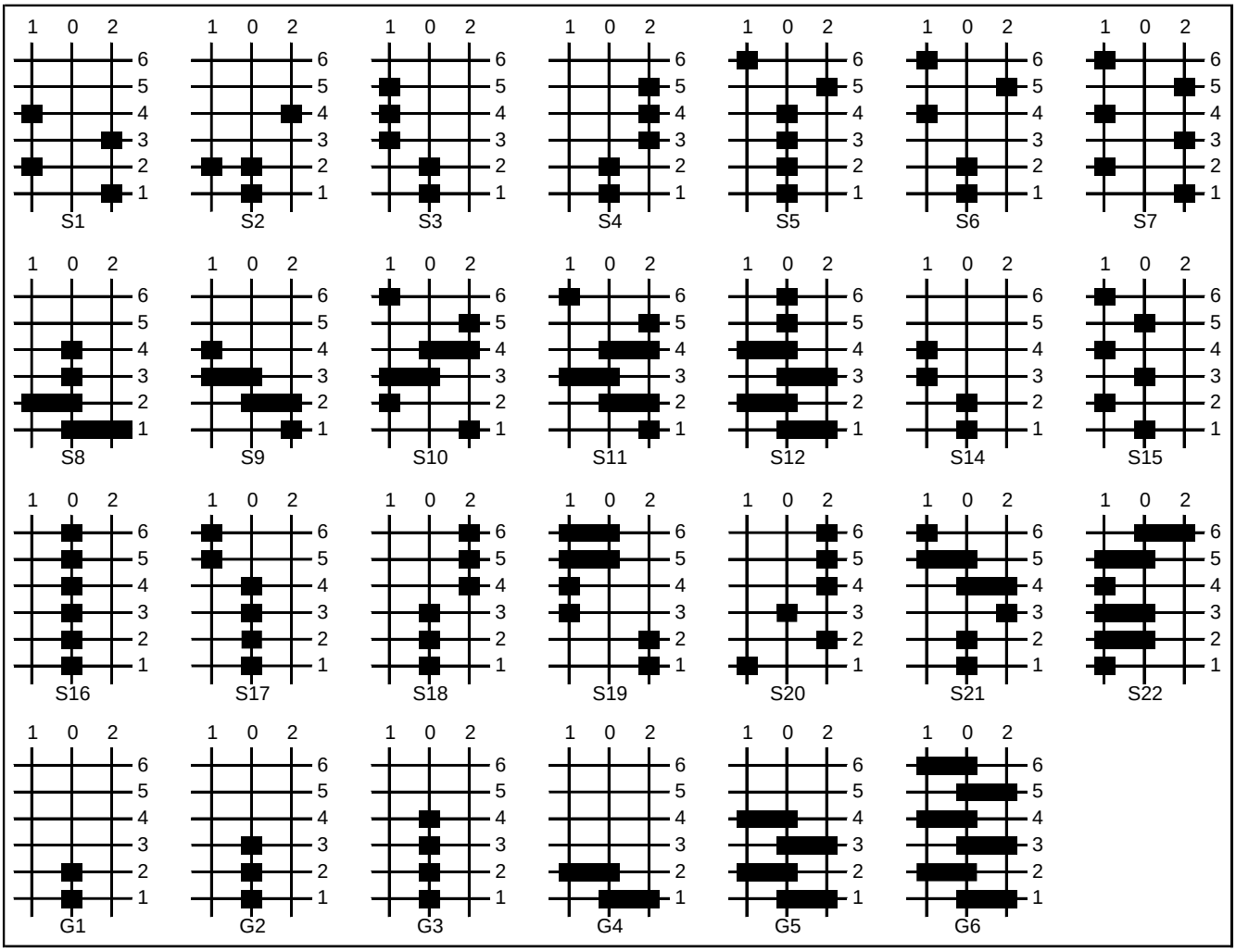


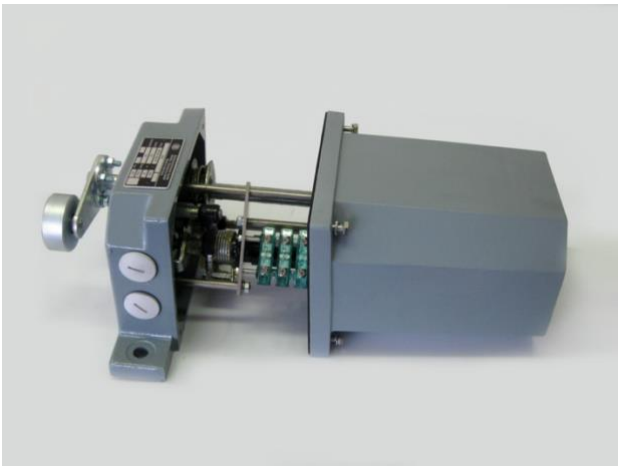
HNS 007



Elektrotechnische Geräte Böhlitz-Ehrenberg GmbH

Normal circuit diagrams





Construction of a lever limit switch:

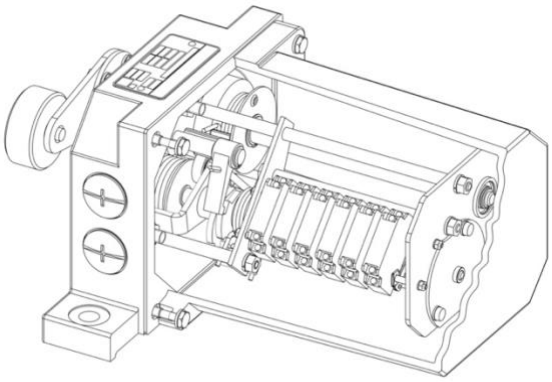
- Small cast case
- Case top made of aluminium casting
- Tapped holes for cable entry
- Central cam-operated quick-action cut off
- Safety circuit with positive emergency stop to offset failure of quick-action switch
- Ball bearing interrupter shaft
- Camshaft and roller contact lever run in
- Specialized plain bearings

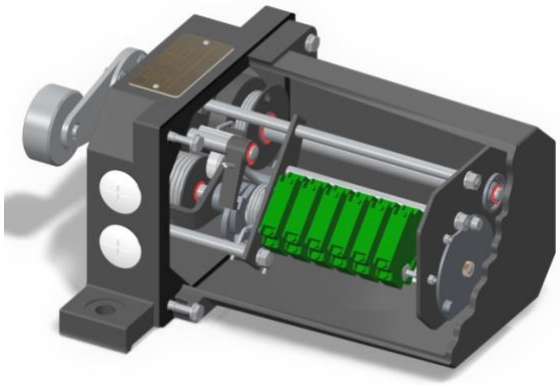
Elektrotechnische Geräte Böhlitz-Ehrenberg GmbH

EGB, from the idea to realisation - everything from a single source

Whether project planning and original equipment, modernisation, maintenance or repair, as a system supplier EGB offers its customers a comprehensive all-round service with expert advice.

With almost 100 years of experience in development and production as well as installation and commissioning, we are the right partner for realising your projects. Our lever limit switches for industrial applications are just a small selection from our extensive portfolio of electrotechnical components, which also includes beside other types of switches high tech slip ring assemblies, hose reels and cable reels.





Visit us at: www.egb-be.de

or meet us in person:

Ludwig-Hupfeld-Straße 6
04178 Leipzig, Germany

☎ +49 341 44 81 0