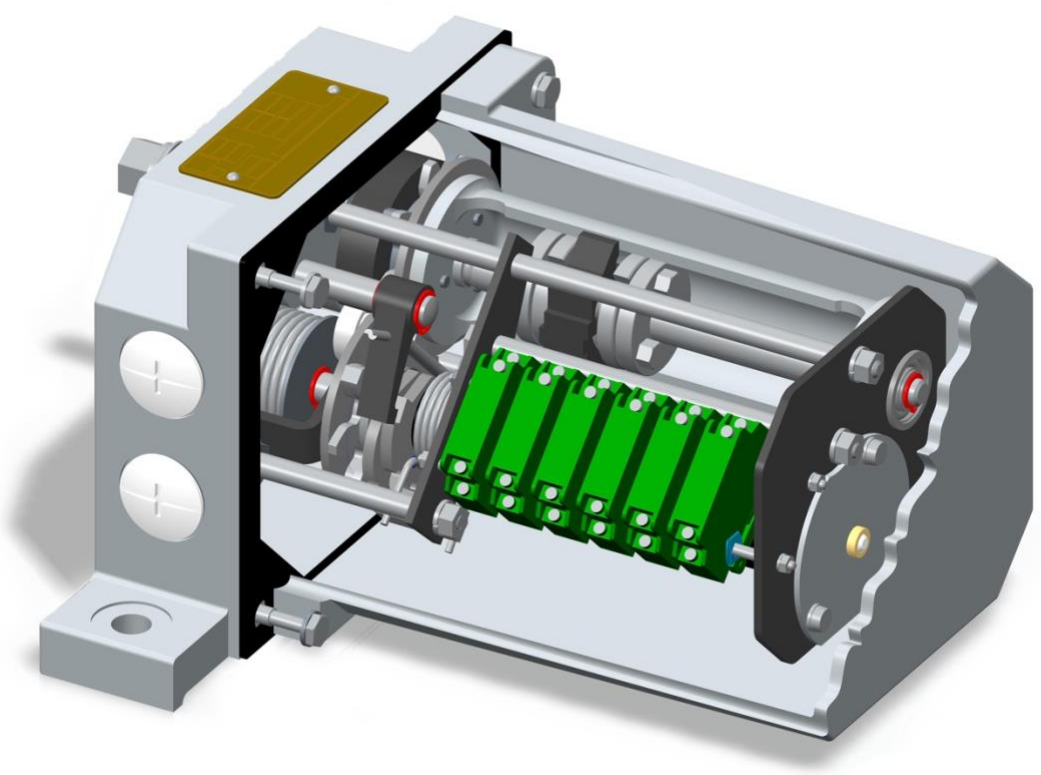
Elektrotechnische Geräte Böhlitz-Ehrenberg GmbH

Spindle Limit Switches
SNS 806/826 and SNS 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 spindle limit switches in your systems**
- **Spare parts and replacement service, including modernisation of existing systems with our range of switches**

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Spindle Limit Switches SNS 806/826 und SNS 007 from EGB

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

The switch can be used as main or overtrable control switch for automatic limitation of elevating, travelling and rotary motions, as electrical interlock or as an indicating device in electrically driven systems where there is no slippage between the revolutions of the drive and the path to be limited.

Advantages:

- Switch can be used as a safety or working switch
- Rugged design and high intrinsic safety level
- Contact elements can be easily replaced
- Switching pattern can be easily changed
- No specialized tools needed for adjusting traveling nut
- Low maintenance input

Specification	SNS 806	SNS 826	SNS 007
Insulation voltage	400 V	400 V	380/660 VAC
Thermal long-distance current	10 A	10 A (useful for SPS)	25 A
Rated frequency	50 Hz	50Hz	50 Hz
Connection lead cross section	0,75 bis 2,5 mm²	0,75 bis 2,5 mm²	2,5 bis 6 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. 120 r.p.m., min. 5 r.p.m., when speed falls as low as 0,5 r.p.m. the breaking capacity decreases and the safety circuit is applied		
Adjustable spindle revolutions	44	44	50
Number of useable overrun revolutions	15	15	15
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		

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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

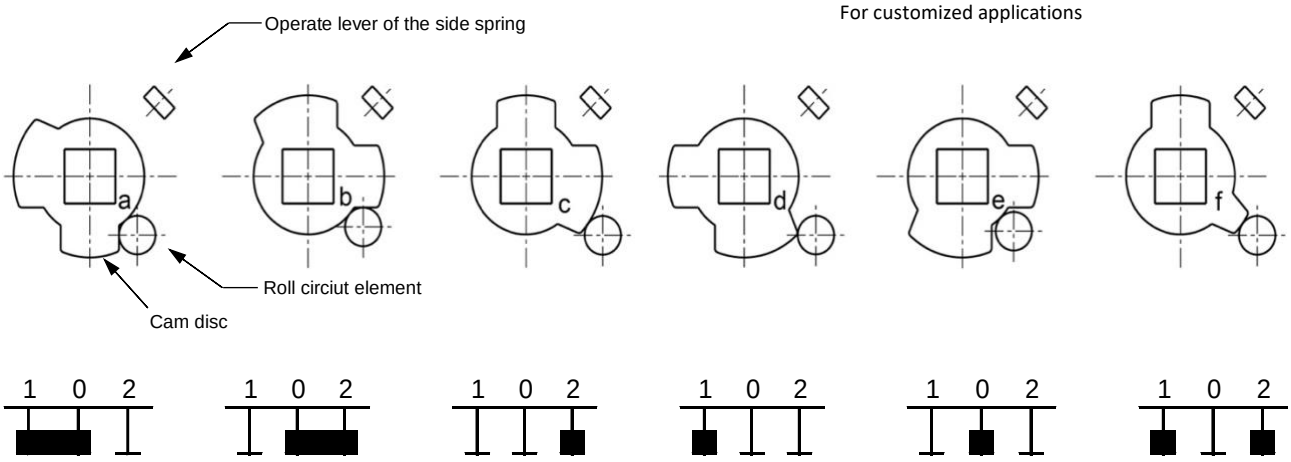
Switching spindles and camshaft counterrotate. The switching elements are numbered 1 through max. 8. Numbering starts from where the drive is.

Diagrams

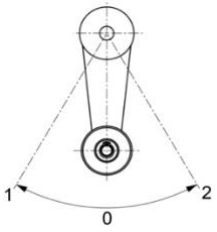
The switches are supplied with max. 6 or 8 cam disk. When plugging the cam disks into the camshaft according to the diagram pay attention, that the position 1 of the diagram must be the first cam disk after the drive.

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



Operating mode: A travelling nut in a tray moves on the switching spindle driven by the drive mechanism. Two variable stops must be adjusted prior o putting the system into operation limit the nut's path on the switching spindle thread. When the nut arrives at an ultimate position it runs against one of the stops and causes the tray to rotate. This rotary movement causes a roller contact lever to come out at the side, actuating the quick-action switch.

Example for a standard order

	SN	**S 806**	**S11**	**IP 56**
Type				
Circuit conduct				
Circuit diagram				
Intrinsity safetly				

or for applications demand by customer

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

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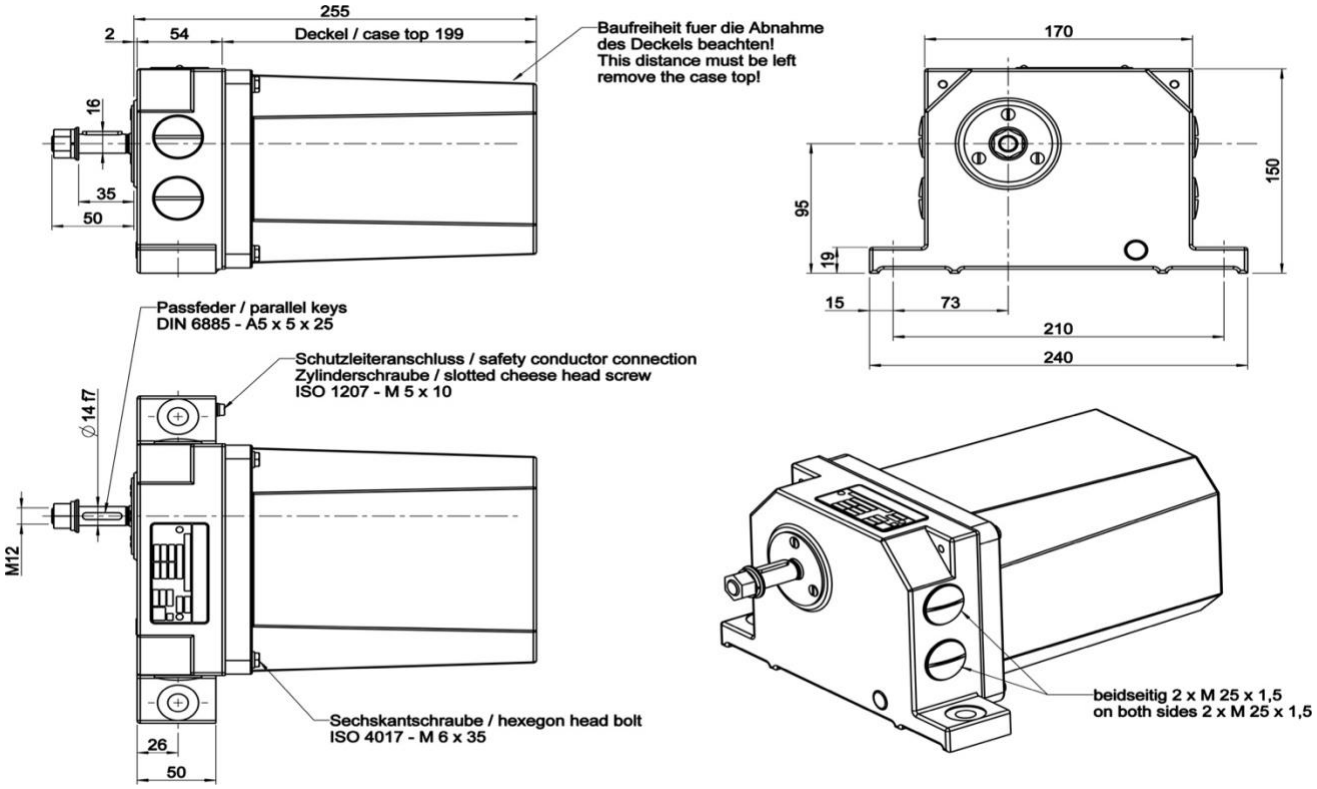
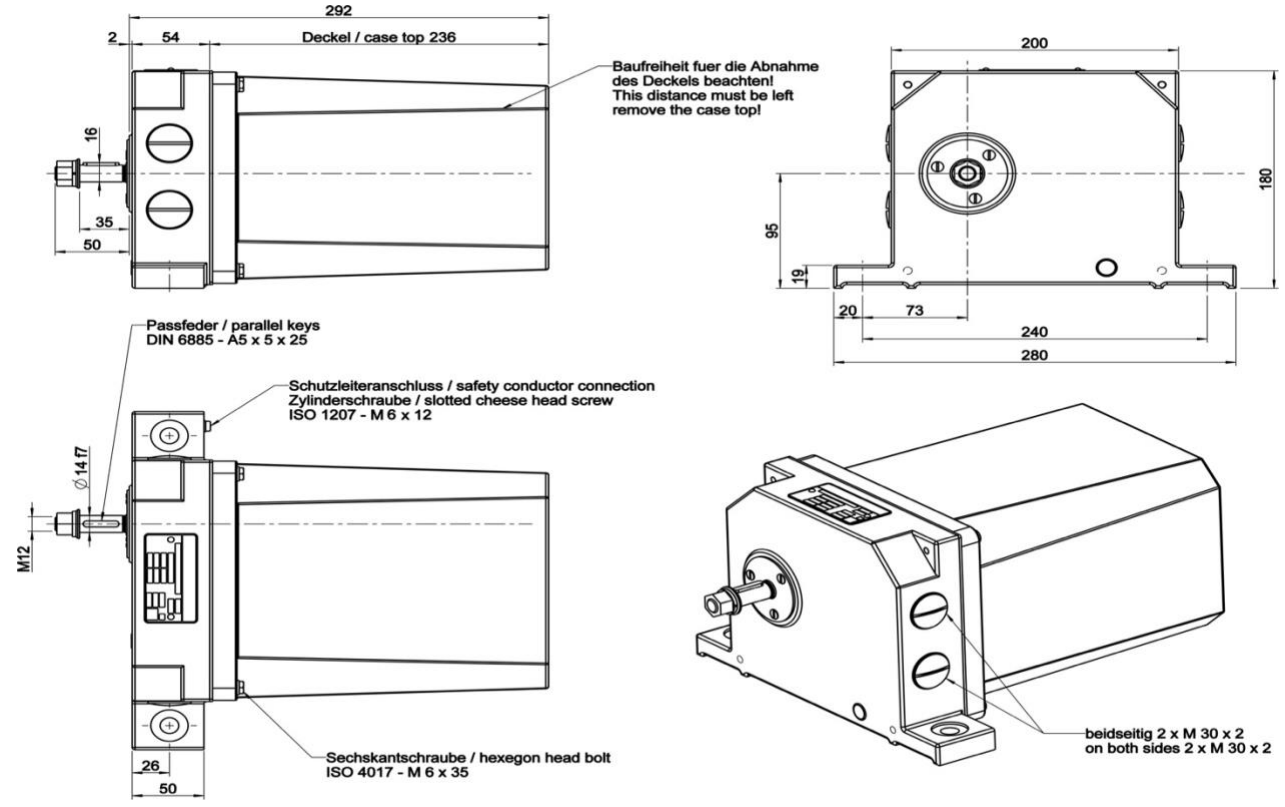
SNS 806/826



SNS 007



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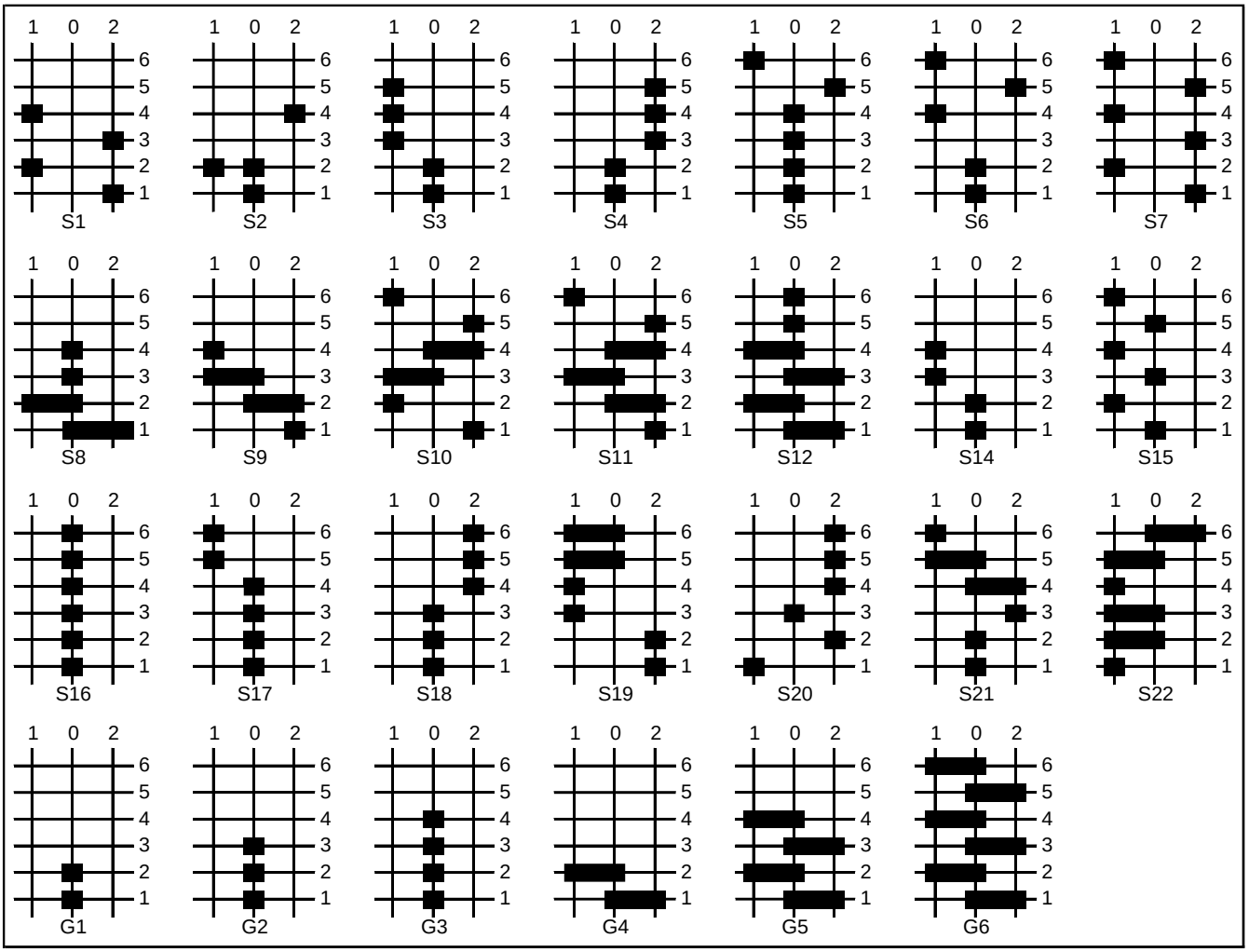
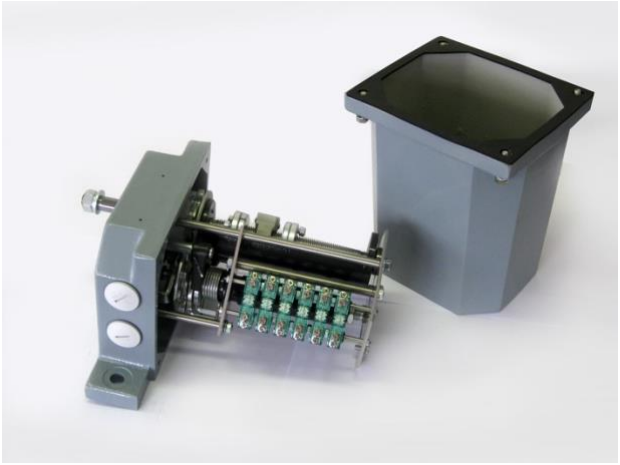
Normal circuit diagrams





Construction of a Spindle Limited Switch:

- Small cast case
- Case top made of aluminum casting
- Tapped holes for cable entry
- Stepless adjustable spindle revolutions between ultimate positions
- Overtravel of the mechanic part after drive-motor switch off
- Quick action combined with safety circuit
- Cam-operated separate contact elements

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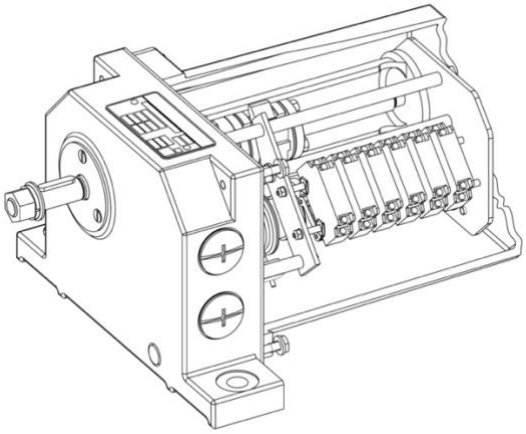
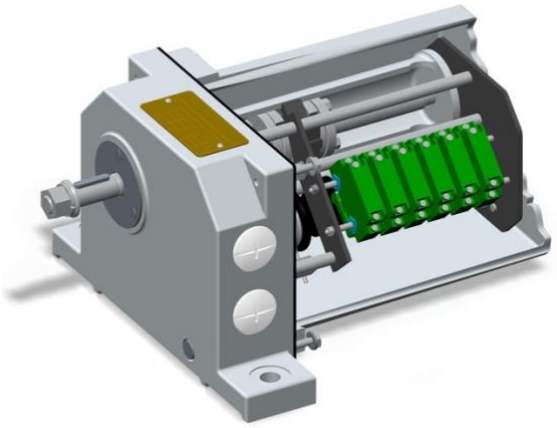
EGB, from the idea to realisation - everything from a single source

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 spindle imited switches for industrial applications are just a small selection from our extensive portfolio of electrotechnical components, which also includes slip ring assemblies, hose reels and cable reels.





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