EN

Joystick Switches

EUCHNER

More than safety.

EUCHNER

More than safety.

Headquarters in Leinfelden-Echterdingen

Logistics center in Leinfelden-Echterdingen

Production location in Unterböhringen

Internationally successful – the EUCHNER company

EUCHNER GmbH + Co. KG is a world-leading company in the area of industrial safety technology. EUCHNER has been developing and producing high-quality switching systems for mechanical and systems engineering for more than 60 years.
The medium-sized family-operated company based in Leinfelden, Germany, employs more than 600 people around the world.

In addition to the production locations in Unterböhringen and Shanghai/China, 15 subsidiaries and other sales partners in Germany and abroad work for our international success on the market.

Quality and innovation – the EUCHNER products

A look into the past shows EUCHNER to be a company with a great inventive spirit. We take the technological and ecological challenges of the future as an incentive for extraordinary product developments.

EUCHNER safety switches monitor safety doors on machines and installations, help to minimize dangers and risks and thereby reliably protect people and processes. Today, our products range from electromechanical and electronic components to intelligent integrated safety solutions. Safety for people, machines and products is one of our dominant themes.

We define future safety technology with the highest quality standards and reliable technology. Extraordinary solutions ensure the great satisfaction of our customers. The product ranges are subdivided as follows:

- Transponder-coded Safety Switches (CES)
- Transponder-coded Safety Switches with guard locking (CET)
- Interlocking and guard locking systems (Multifunctional Gate Box MGB)
- Access management systems (Electronic-Key-System EKS)
- Electromechanical Safety Switches
- Magnetically coded Safety Switches (CMS)
- Enabling Switches
- Safety Relays
- Emergency Stop Devices
- Hand-Held Pendant Stations and Handwheels
- Safety Switches with AS-Interface
- Joystick Switches
- Position Switches

made in Germany

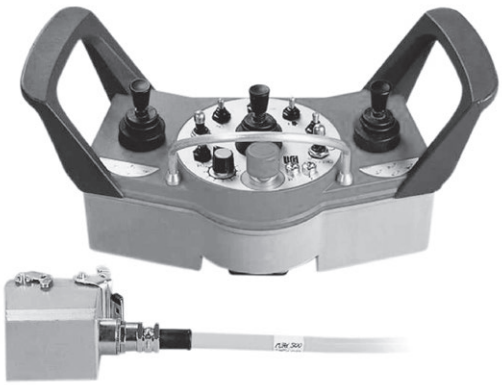
Contents

Joystick Switches

Application

Joystick switches or joysticks are manually actuated control devices for installation in control and front panels as well as in portable control equipment. They are used wherever motion sequences analogous to the actuation direction are controlled by hand. They are ideal for raising, lowering and triggering movements to the right and left, just to name same few possibilities.
EUCHNER joysticks are used in the steel and construction industry, in machine tools, for transport and conveyor systems, in the system and mechanical engineering sectors and for warehousing, medical and studio technology. With the GL (Germanischer Lloyd) certification, the devices are approved for use in the ship-building industry.
EUCHNER joysticks are also used for radio and cable controls, building machinery and cranes.

Joysticks as control equipment in remote control devices


Remote cable control for concrete pumps

Design and function

Microswitches with a step function response are used as switching elements. Due to the intermittent control, a clear switching function is given for precise control systems. Depending on the respective application, switching elements with a power rating of between 4mA and 16A can be used. These are fixed on the mounting plate for each different series, either individually or in groups. The switching elements are actuated by the joystick being moved out of the intermediate position. The robust levers made of stainless steel are bedded with a hinged ball bearing that is fixed in a front plate.

Advantages/features

- Simplification of the command control station
- Easy mounting due to the slots in the panel
- Small space requirement
- Long service life
- Robust and lasting construction
- High potection class: IP 65 and beyond

Series

EUCHNER joystick switches are available in a number of different models:

Series WK...
(page 6)

Series WE...
(page 8)

Series KB...
(page 10)

Series KF...
(page 12)

Series KE...
(page 14)

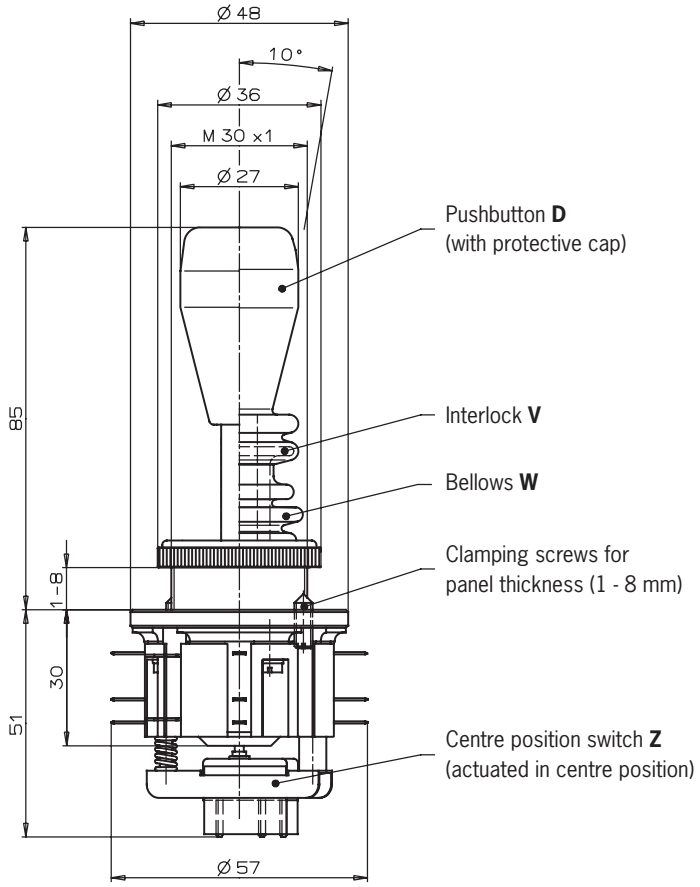
Series KC...
(page 16)

Series WK...

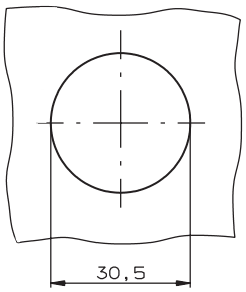
Germanischer Lloyd
Certificate no. 17 041 - 00 HH

- **Control panel installation to IEC 947-5-1 D30**
- **1 to 8 actuating directions with spring return operation or combined**
- **One changeover contact with tab connector 2.8 x 0.5 IEC 760 for each actuating direction**
- **Centre position switch**
- **Pushbutton in handle**

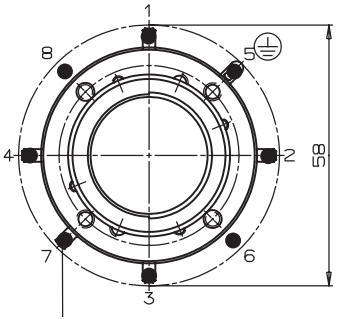
Dimension drawing



Panel cutout



Actuating directions



Connection **D**
(the connection is located on the underside for types with 8 directions)

Ordering code

W	K		

Series

Actuating direction and switching behavior

Stayput switch	**S**	(switching lever latches in selected position)
Spring return switch	**T**	(switching lever returns to centre position)

Options

Pushbutton	**D**
Bellows	**W**
Interlock	**V**
Centre position switch	**Z**
All-round actuation	**R**

Technical data

Parameter	Value	Unit
Housing material	Glass-fibre reinforced thermoplastic / aluminum	
Switching lever material	Stainless steel	
Degree of protection to IEC 529 on actuating side with / without bellows	IP65 / IP64	
Mounting method	IEC 947-5-1 D30	
Weight	Approx. 0.17	kg
Mechanical life	$1x10^6$ switching cycles	
Ambient temperature with spring return switch	-5 to +65	°C
Ambient temperature with stayput switch	-25 to +65	°C
Max. number of switching elements	8	
Connection type	Tab connector 2.8 x 0.5 IEC 760	
Contact elements	Changeover contact C IEC 947-5-1	
Switching principle	Snap-action switch, type ES 584	
Rated insulation voltage U_i	250	V
Rated impulse withstand voltage U_{imp}	2.5	kV
Utilization category AC 15	230 V / 4 A	
Utilization category DC 13	24 V / 2 A	
Min. switching current at 24 V	12	mA
Min. switching voltage	10	V
Contact material	Silver alloy, gold on request	
Short circuit protection (control circuit fuse)	T6 / F10	A
Max. number of actuating directions	8	
All-round actuation R (spring return switch only)	Actuation of 1 switching element (vertical or horizontal) or 2 adjacent switching elements (diagonal) simultaneously, with 8 microswitches *	
Switching positions per direction	1	
Stayput switch S (latching)	According to type designation	
Spring return switch T	According to type designation	
Bellows W	Option	
Interlock V in centre position	Option	
Centre position switch Z	Option	
Pushbutton D	Option	
Degree of protection to IEC 529	IP65	
Electrical life	$5x10^4$ switching cycles at 0.7 A / 250 V AC	
Switching element	1 x NO contact	
Utilization category AC 15	230 V / 2 A	
Utilization category DC 13	24 V / 1 A	
Min. switching current at 24 V	12	mA
Min. switching voltage	10	V
Actuating force	< 8	N
Actuating travel	Approx. 3	mm

Ordering examples

Joystick switch series **WK**, actuating directions **1**+**3** stayput switch **S**, actuating directions **2**+**4** spring return switch **T**, Pushbutton **D**, centre position switch **Z**, Interlock **V** in centre position — **WK S13 T24 DZV**

Joystick switch series **WK**, 8 switching elements as spring return switches, all-round actuation **R** — **WK T1-8 R**

Design

Joystick switch series **WK**, 4 switching elements, 2 actuating directions (2 switching elements per actuating direction) — **on request**

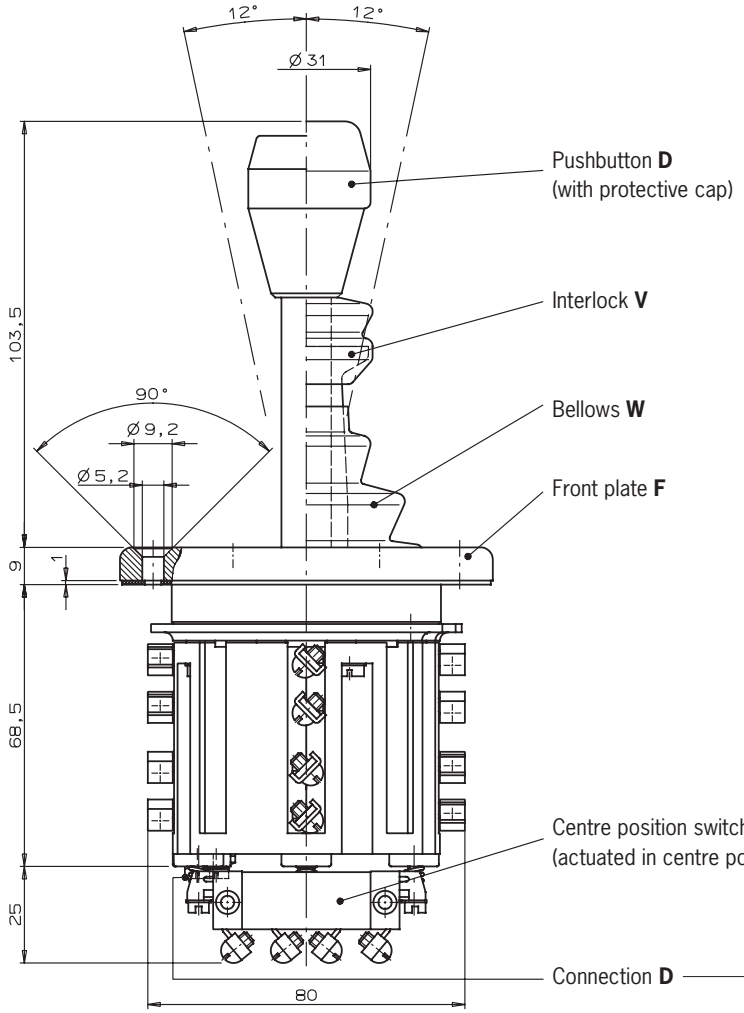
* Diagonal actuation of 4 adjacent switching elements is on request.

Series WE...

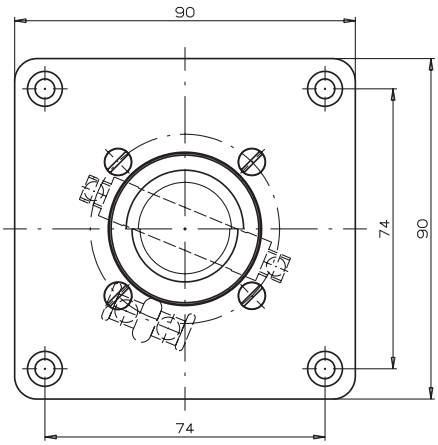
Germanischer Lloyd
Certificate no. 17 041 - 00 HH

- **Control panel installation at rear or with front plate**
- **1 to 8 actuating directions with stayput or spring return operation or combined**
- **One changeover contact with screw terminal for each actuating direction**
- **Centre position switch**
- **Pushbutton in handle**

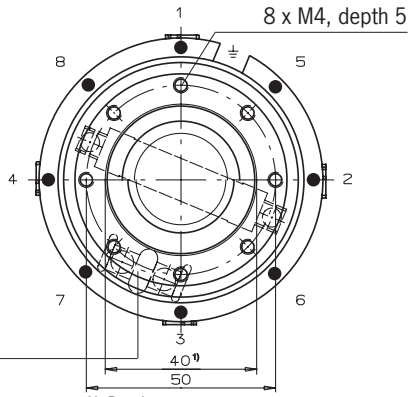
Dimension drawing



Front plate



Control panel installation and actuating directions



1) Panel cutout:
- without bellows 40 mm
- with bellows 42 mm

Ordering code

W	E		

Series

Actuating direction and switching behavior

Stayput switch	**S**	(switching lever latches in selected position)
Spring return switch	**T**	(switching lever returns to centre position)

Options

Pushbutton	**D**
Bellows	**W**
Interlock	**V**
Centre position switch	**Z**
All-round actuation	**R**
Front plate	**F**

Technical data

Parameter	Value	Unit
Housing material	Glass-fibre reinforced thermoplastic / aluminum	
Switching lever material	Galvanized steel	
Degree of protection to IEC 529 on actuating side with / without bellows	IP65 / IP54	
Mounting method	Control panel installation at rear or with front plate	
Weight	Approx. 0.65	kg
Mechanical life	$1x10^6$ switching cycles	
Ambient temperature with spring return switch	-5 to +65	°C
Ambient temperature with stayput switch	-25 to +65	°C
Max. number of switching elements	8	
Connection type	Screw terminal	
Contact elements	changeover contact Za IEC 947-5-1	
Switching principle	Snap-action switch, type ES 502V1	
Rated insulation voltage U_i	250	V
Rated impulse withstand voltage U_{imp}	2.5	kV
Utilization category AC 15	230 V / 10 A	
Utilization category DC 13	24 V / 4 A	
Min. switching current at 24 V	50	mA
Min. switching voltage	24	V
Contact material	Silver alloy	
Short circuit protection (control circuit fuse)	T16 / F25	A
Max. number of actuating directions	8	
All-round actuation R (spring return switch only)	1 switching element is actuated per actuating direction	
Switching positions per direction	1	
Stayput switch S (latching)	According to type designation	
Spring return switch T	According to type designation	
Bellows W	Option	
Interlock V in centre position	Option	
Centre position switch Z	Option	
Pushbutton D	Option	
Degree of protection to IEC 529	IP65	
Electrical life	$5x10^4$ switching cycles at 0.7 A / 250 V AC	
Switching element	1 x NO contact	
Utilization category AC 15	230 V / 2 A	
Utilization category DC 13	24 V / 1 A	
Min. switching current at 24 V	12	mA
Min. switching voltage	10	V
Actuating force	< 8	N
Actuating travel	Approx. 3	mm

Ordering examples

Joystick switch series **WE**, actuating directions **1**+**3** stayput switch **S**, actuating directions **2**+**4** spring return switch **T**, Pushbutton **D**, centre position switch **Z**, Interlock **V** in centre position — **WE S13 T24 DZV**

Joystick switch series **WE**, 8 switching elements as spring return switches, all-round actuation **R** — **WE T1-8 R**

Design

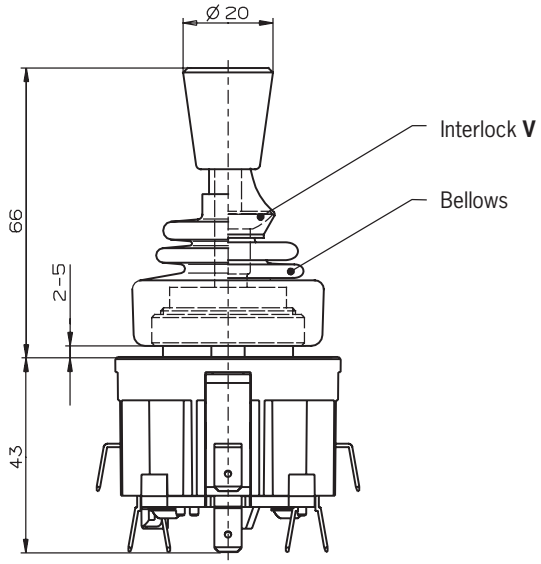
Joystick switch series **WE**, 4 switching elements, 2 actuating directions (2 switching elements per actuating direction) — **on request**

Series KB...

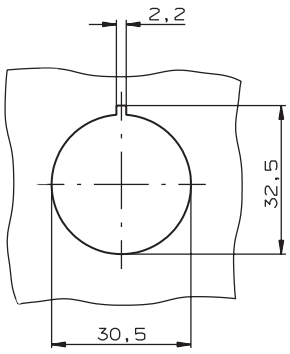
Germanischer Lloyd
Certificate no. 17 041 - 00 HH

- **Control panel installation to IEC 947-5-1 D30**
- **1 to 8 actuating directions, 4 switching elements. With stayput or spring return operation or combined**
- **One changeover contact with tab connector 6.3 x 0.8 IEC 760 for each actuating direction**

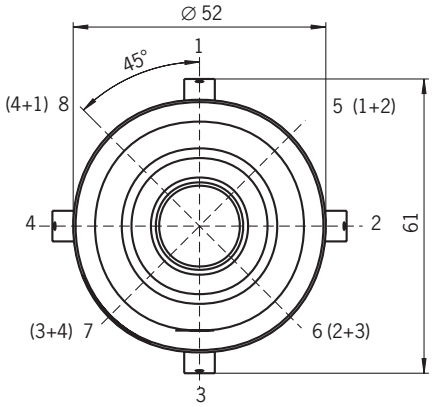
Dimension drawing



Panel cutout



Actuating directions



Ordering code

K	B		

Series

Actuating direction and switching behavior

Stayput switch	**S**	(switching lever latches in selected position)
Spring return switch	**T**	(switching lever returns to centre position)

Options

Interlock	**V**
All-round actuation	**R** [1]

1) Simultaneous actuation of 2 adjacent switching elements in diagonal actuating directions.

Technical data

Parameter		Value	Unit
Housing material		Thermoplastic	
Switching lever material		Stainless steel	
Degree of protection to IEC 529 on actuating side with / without bellows		IP65	
Mounting method		IEC 947-5-1 D30	
Weight		Approx. 0.2	kg
Mechanical life	Spring return switch	$2x10^6$ switching cycles	
	Stayput switch	$1x10^6$ switching cycles	
Ambient temperature with spring return switch		-5 to +65	°C
Ambient temperature with stayput switch		-25 to +65	°C
Max. number of switching elements		4	
Connection type		Tab connector 6.3 x 0.8 IEC 760 Screw terminal on request	
Contact elements		Changeover contact C IEC 947-5-1	
Switching principle		Snap-action switch, type ES 517 A	
Rated insulation voltage U_i		250	V
Rated impulse withstand voltage U_{imp}		2.5	kV
Utilization category AC 15		230 V / 5 A	
Utilization category DC 13		24 V / 3 A	
Min. switching current at 24 V		10	mA
Min. switching voltage		12	V
Contact material		Silver alloy	
Short circuit protection (control circuit fuse)		T10 / F20	A
Max. number of actuating directions		8	
All-round actuation R (spring return switch only)		Actuation of 1 switching element (vertical or horizontal) or 2 adjacent switching elements (diagonal) simultaneously	
Switching positions per direction		1	
Stayput switch S (latching)		According to type designation	
Spring return switch T		According to type designation	
Interlock V in centre position		Option	

Ordering examples

Joystick switch series **KB**, actuating directions **1**+**3** stayput switch **S**, actuating directions **2**+**4** spring return switch **T** — **KB S13 T24**

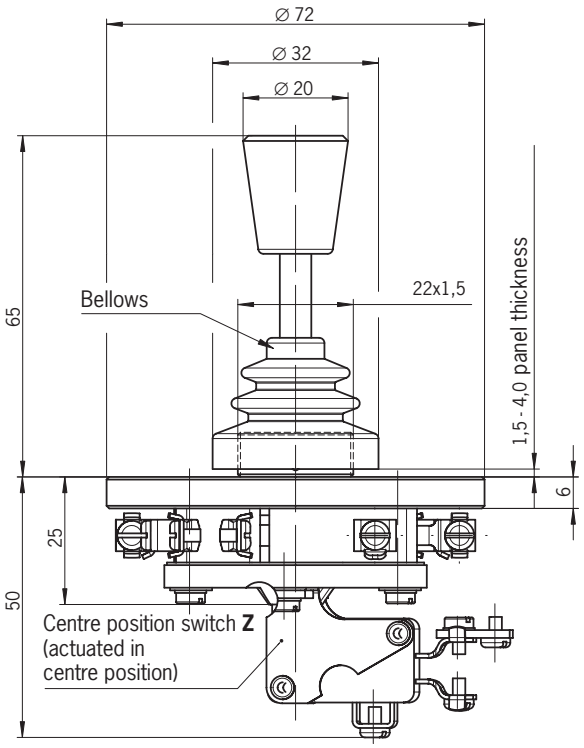
Joystick switch series **KB**, actuating directions **1**+**3** spring return switch **T**, Interlock **V** in centre position — **KB T13 V**

Series KF...

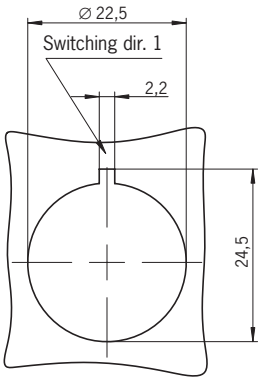
Germanischer Lloyd
Certificate no. 17 041 - 00 HH

- **Control panel installation at rear**
- **1 to 8 actuating directions, 4 switching elements. With stayput or spring return operation or combined**
- **One changeover contact with screw terminal for each actuating direction**
- **Centre position switch**

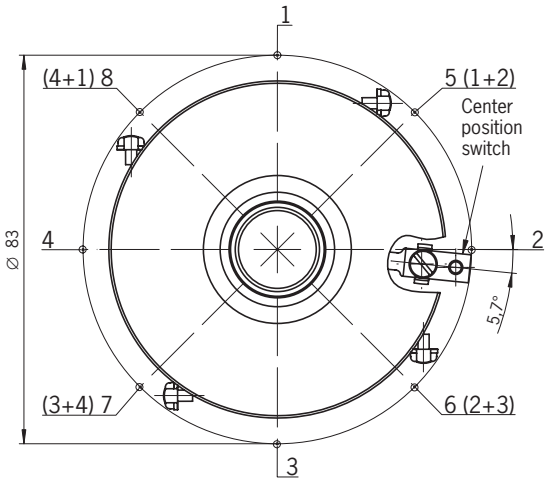
Dimension drawing



Panel cutout



Actuating directions



Ordering code

K	F		

Series

Actuating direction and switching behavior

Stayput switch	**S**	(switching lever latches in selected position)
Spring return switch	**T**	(switching lever returns to centre position)

Options

Centre position switch	**Z**
All-round actuation	**R** [1]

1) Simultaneous actuation of 2 adjacent switching elements in diagonal actuating directions.

Technical data

Parameter	Value	Unit
Housing material	Duroplast	
Switching lever material	Stainless steel	
Degree of protection to IEC 529 on actuating side with / without bellows	IP65	
Mounting method	Panel installation at rear	
Weight	Approx. 0.2	kg
Mechanical life	$1x10^6$ switching cycles	
Ambient temperature with spring return switch	-25 to +65	°C
Ambient temperature with stayput switch	-25 to +65	°C
Max. number of switching elements	4	
Connection type	Screw terminal	
Contact elements	Changeover contact C IEC 947-5-1	
Switching principle	Snap-action switch, type ES 517	
Rated insulation voltage U_i	250	V
Rated impulse withstand voltage U_{imp}	2.5	kV
Utilization category AC 15	230 V / 5 A	
Utilization category DC 13	24 V / 3 A	
Min. switching current at 24 V	10	mA
Min. switching voltage	12	V
Contact material	Silver alloy	
Short circuit protection (control circuit fuse)	T10 / F20	A
Max. number of actuating directions	8	
All-round actuation R	Actuation of 1 switching element (vertical or horizontal) or 2 adjacent switching elements (diagonal) simultaneously	
Switching positions per direction	1	
Stayput switch S (latching)	According to type designation	
Spring return switch T	According to type designation	
Centre position switch Z	Option	

Ordering examples

Joystick switch series **KF**, actuating directions **1**+**3** stayput switch **S**, actuating directions **2**+**4** spring return switch **T**, centre position switch **Z** — **KF S13 T24 Z**

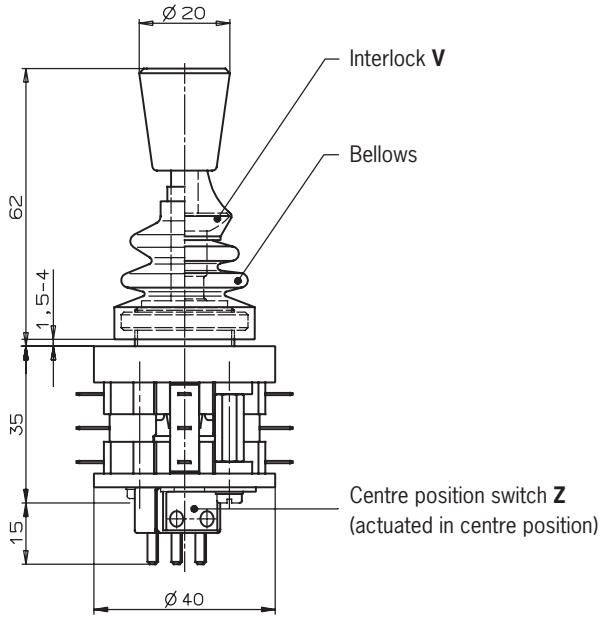
Joystick switch series **KF**, actuating directions **1**-**4** spring return switch **T**, all-round actuation **R** — **KF T1234 R**

Series KE...

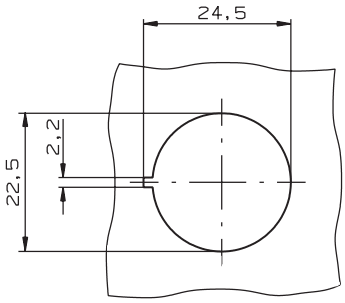
Germanischer Lloyd
Certificate no. 17 041 - 00 HH

- **Control panel installation to IEC 947-5-1 D22**
- **1 to 8 actuating directions, 4 switching elements. With stayput or spring return operation or combined**
- **One changeover contact with tab connector 2.8 x 0.5 IEC 760 for each actuating direction**
- **Centre position switch**

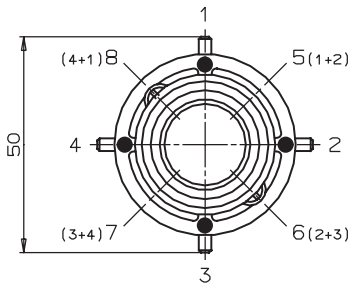
Dimension drawing



Panel cutout



Actuating directions



Ordering code

K	E		

Series

Actuating direction and switching behavior

Stayput switch	**S**	(switching lever latches in selected position)
Spring return switch	**T**	(switching lever returns to centre position)

Options

Interlock	**V**
Centre position switch	**Z**
All-round actuation	**R** [1]

1) Simultaneous actuation of 2 adjacent switching elements in diagonal actuating directions.

Technical data

Parameter	Value	Unit
Housing material	Duroplast	
Switching lever material	Stainless steel	
Degree of protection to IEC 529 on actuating side with / without bellows	IP65	
Mounting method	IEC 947-5-1 D22	
Weight	Approx. 0.1	kg
Mechanical life	$1x10^6$ switching cycles	
Ambient temperature with spring return switch	-25 to +65	°C
Ambient temperature with stayput switch	-25 to +65	°C
Max. number of switching elements	4	
Connection type	Tab connector 2.8 x 0.5 IEC 760	
Contact elements	Changeover contact C IEC 947-5-1	
Switching principle	Snap-action switch, type ES 587	
Rated insulation voltage U_i	250	V
Rated impulse withstand voltage U_{imp}	2.5	kV
Utilization category AC 15	230 V / 4 A	
Utilization category DC 13	24 V / 2 A	
Min. switching current at 24 V	12	mA
Min. switching voltage	10	V
Contact material	Silver alloy	
Short circuit protection (control circuit fuse)	T10 / F20	A
Max. number of actuating directions	8	
All-round actuation R	Actuation of 1 switching element (vertical or horizontal) or 2 adjacent switching elements (diagonal) simultaneously	
Switching positions per direction	1	
Stayput switch S (latching)	According to type designation	
Spring return switch T	According to type designation	
Interlock V in centre position	Option	
Centre position switch Z	Option	

Ordering examples

Joystick switch series **KE**, actuating directions **1**+**3** stayput switch **S**, actuating directions **2**+**4** spring return switch **T**, centre position switch **Z** — **KE S13 T24 Z**

Joystick switch series **KE**, actuating directions **1**+**3** spring return switch **T**, Interlock **V** in centre position — **KE T13 V**

Joystick switch series **KE**, actuating directions **1**-**4** Spring return switch **T**, all-round actuation **R** — **KE T1234 R**

Series KC...

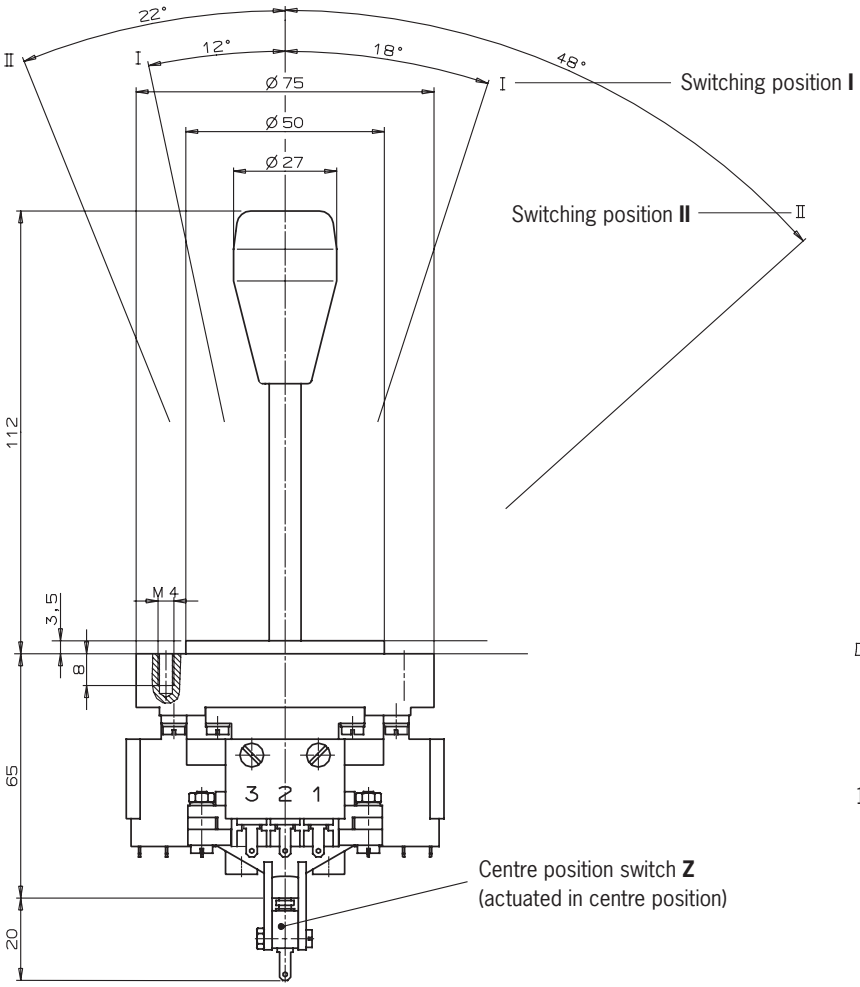
Germanischer Lloyd
Certificate no. 17 041 - 00 HH

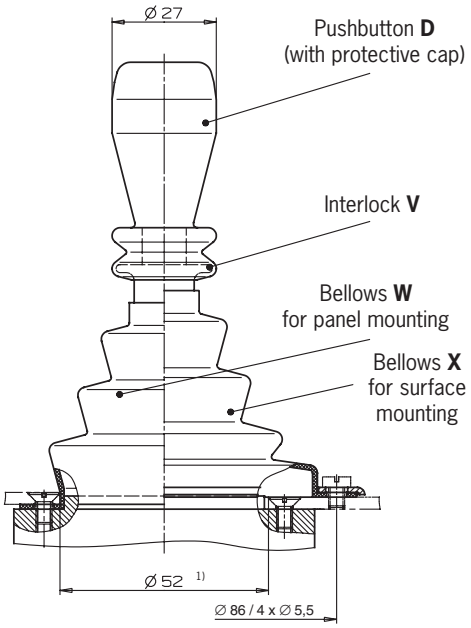
- **Control panel installation at rear or with front plate**
- **1 to 8 actuating directions with 1 or 2 switching positions for each actuating direction**
- **Switching positions as stayput or spring return operation in various combinations**
- **Centre position switch**
- **Pushbutton in handle**

Dimension drawing

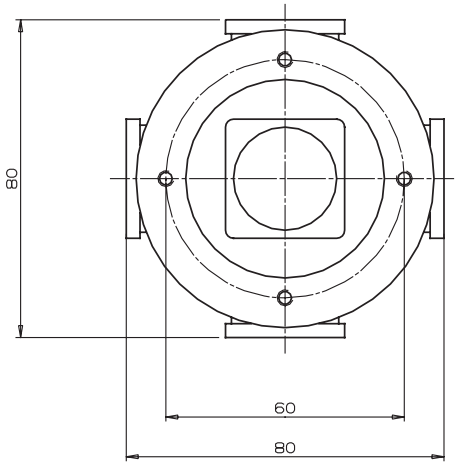
Main actuating directions
1, 2, 3 and **4**

Diagonal actuating directions
5, 6, 7 and **8**

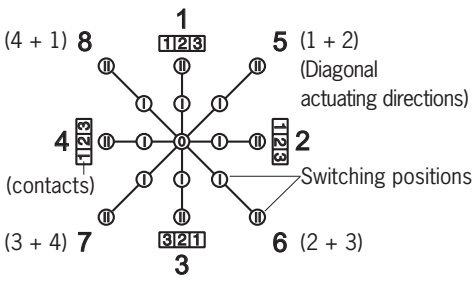




1) Panel cutout for assembly with bellows **W**



Actuating directions
Top view of actuating lever



Technical data

Parameter	Value	Unit
Housing material	Glass-fibre reinforced thermoplastic / aluminum	
Switching lever material	Galvanized steel	
Degree of protection to IEC 529 on actuating side with / without bellows	IP65 / IP50	
Mounting method	Control panel installation at rear or with front plate	
Weight	Approx. 0.75	kg
Mechanical life	$1x10^6$ switching cycles	
Ambient temperature with spring return switch	-5 to +65	°C
Ambient temperature with stayput switch	-25 to +65	°C
Max. number of switching elements	3 per direction	
Connection type	Tab connector 2.8 x 0.5 IEC 760 (ES 584) Screw terminal (ES 556)	
Contact elements	Changeover contact C IEC 947-5-1	
Switching principle	Snap-action switch, type ES 584 oder ES 556	
Rated insulation voltage U_i	250	V
Rated impulse withstand voltage U_{imp}	2.5	kV
Utilization category AC 15	230 V / 4 A	
Utilization category DC 13	24 V / 2 A	
Min. switching current at 24 V	12	mA
Min. switching voltage	10	V
Contact material	Silver alloy	
Short circuit protection (control circuit fuse)	T6 / F10	A
Max. number of actuating directions	8	
All-round actuation R (spring return switch only)	Actuation of 1 switching element (vertical or horizontal) or 2 adjacent switching elements (diagonal) simultaneously	
Switching positions per direction	1 or 2	
Stayput switch S (latching)	According to type designation	
Spring return switch T	According to type designation	
Bellows W, X	Option	
Interlock V in centre position oder Stellung I	Option	
Centre position switch Z	Option	
Pushbutton D	Option	
Degree of protection to IEC 529	IP65	
Electrical life	$5x10^4$ switching cycles at 0.7 A / 250 V AC	
Contact elements	1 x NO contact	
Utilization category AC 15	230 V / 2 A	
Utilization category DC 13	24 V / 1 A	
Min. switching current at 24 V	12	mA
Min. switching voltage	10	V
Actuating force	< 8	N
Actuating travel	Approx. 3	mm

Ordering examples (see ordering code page 18)

Joystick switch series **KC** with tab connector, main actuating direction 1 with 3 switching elements. As spring return switch in switching position I. As stayput switch in switching position II. Main actuating directions 2 and 4 with 2 switching elements each. As stayput switch in switching positions I and II. Main actuating direction 3 not used. Option **V1** (mech. interlock from switching position I to switching position II) **KCA3A5C005C0000V1**

Joystick switch series **KC** with screw terminal, main actuating directions **1**-**4** as stayput switch. **S** with one switching element each, diagonal actuating directions **5**-**8**, Pushbutton **D**, bellows **W** for panel mounting. **KCB4E4E4E4E5678DW**

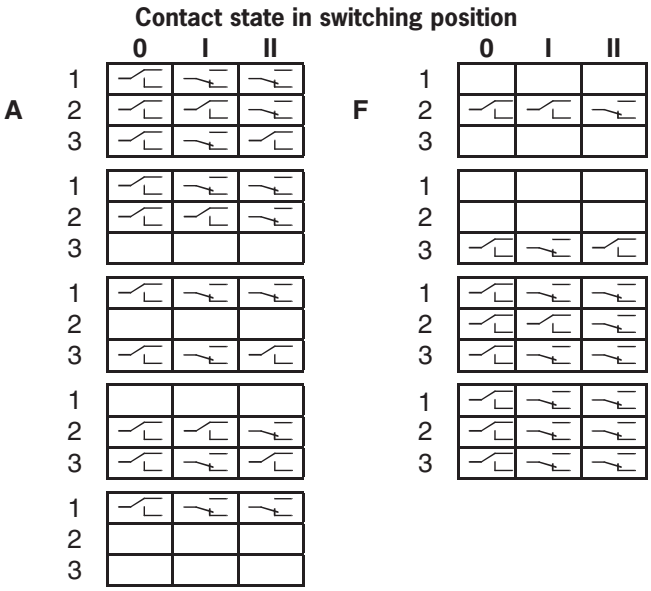
Series KC...

Switching behavior [1)]

● Stayput switch (switching lever latches in selected position))
⊕ Spring return switch (switching lever returns to initial position)

Ordering code	Switching position	
	I	II
1	⊕	–
2	⊕	⊕
3	⊕	●
4	●	–
5	●	●
6	●	⊕

Switching functions [2)]



Ordering code

Series

Connection type

Tab connector 2.8 x 0.5 IEC 760	**A**
Screw terminal	**B**

Main actuating direction 1
Switching behavior [1)]
Switching function [2)]

Main actuating direction 2
Switching behavior [1)]
Switching function [2)]

Main actuating direction 3
Switching behavior [1)]
Switching function [2)]

Main actuating direction 4
Switching behavior [1)]
Switching function [2)]

Diagonal actuating direction 5 [3)]
Diagonal actuating direction 6 [3)]
Diagonal actuating direction 7 [3)]
Diagonal actuating direction 8 [3)]

Options

Pushbutton in handle	**D**
Bellows for panel mounting	**W**
Bellows for surface mounting	**X**
Interlock switching position 0	**V0**
Interlock switching position I to II	**V1**
Centre position switch	**Z**
All-round actuation	**R**

1) See „Switching behavior“ table. Actuating directions which are not required must be marked with „0“.
2) See „Switching functions“ table.
3) Simultaneous actuation of 2 adjacent switching elements in diagonal actuating directions.

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