

Series KC...

- Front panel installation at rear or with front panel
- 1 to 8 actuating directions with 1 or 2 switch positions for each actuating direction
- Switch positions as stayput switch or spring return switch in various combinations
- Center position switch
- Pushbutton in handle

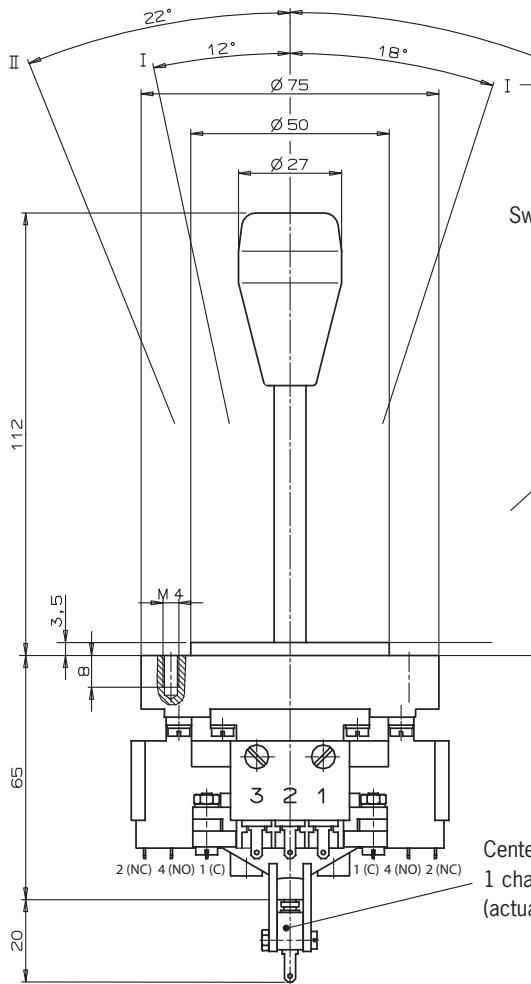
Germanischer Lloyd

Certificate no. 17 041 - 00 HH

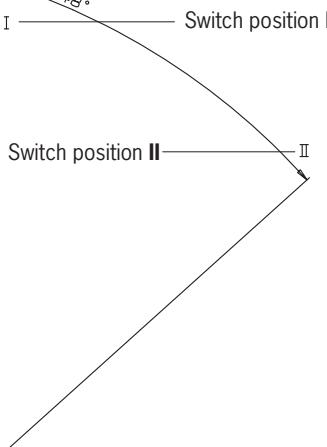


Dimension drawing

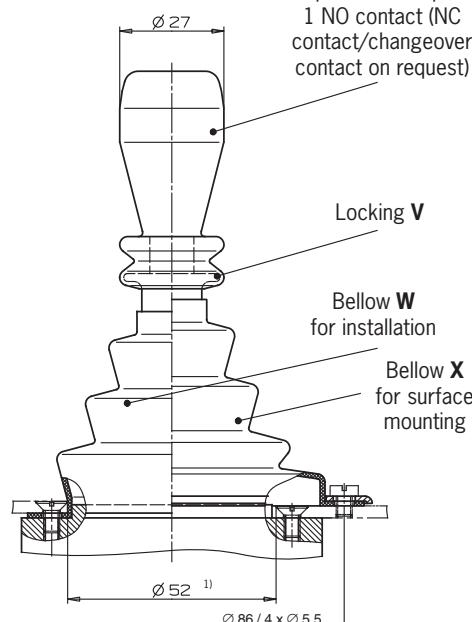
Main actuating directions
1, 2, 3 and 4



Diagonal actuating directions
5, 6, 7 and 8

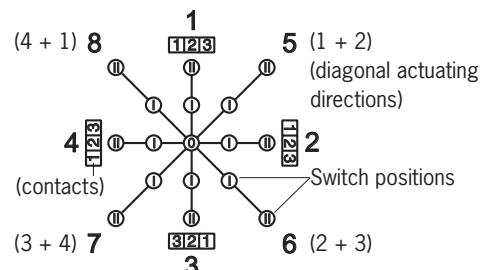
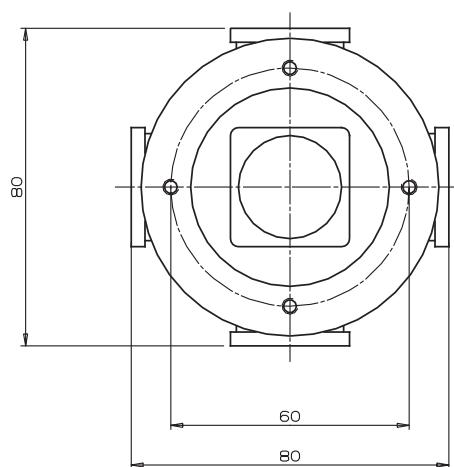


Pushbutton D (with protective cap)
1 NO contact (NC contact/changeover contact on request)



1) Panel cut-out for mounting with bellow W

Actuating directions
Top view of actuating lever



Technical data

Parameter	Value	Unit
Housing material	Reinforced thermoplastic/aluminum	
Switching lever material	Galvanized steel	
Degree of protection acc. to IEC 529	IP 65/IP 50	
Actuating side with/without bellow		
Mounting	Front panel installation at rear or with front panel	
Weight	Approx. 0.75	kg
Mechanical life	1x10 ⁶ operating cycles	
Ambient temperature with spring return switch	-5 to +65	°C
Ambient temperature with stayput switch	-25 to +65	°C
Storage temperature	-40 to +50	°C
Max. number of switching elements	3 per direction	
Connection	Tab connector 2.8 x 0.5 IEC 760 (ES 584) Screw terminal (ES 556)	
Switching contacts	Changeover contact C IEC 947-5-1	
Switching principle	Snap-action contact element, design ES 584 or 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	
Switching current, min., at 24 V	12	mA
Switching voltage, min.	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 one switching element (vertically or horizontally) or two adjacent switching elements (diagonally) at the same time	
Switch positions per direction	1 or 2	
Stayput switch S (latching)	According to order designation	
Spring return switch T (automatic return)	According to order designation	
Bellow W, X	Option	
Locking V in center position or position I	Option	
Center position switch Z	Option (1 changeover contact)	
Pushbutton D	Option	
Degree of protection acc. to IEC 529	IP 65	
Life	5x10 ⁴ operating cycles at 0.7 A/250 V AC	
Switching contacts	1 x NO contact (NC contact/changeover contact on request)	
Utilization category AC 15	230 V/2 A	
Utilization category DC 13	24 V/1 A	
Switching current, min., at 24 V	12	mA
Switching voltage, min.	10	V
Actuating force	< 8	N
Actuating travel	Approx. 3	mm

Ordering examples (see ordering codes, page 18)

Joystick switch series **KC** with tab connector, main actuating direction 1 with 3 switching elements. As spring return switch in switch position I.

KCA3A5C005C0000V1

As stayput switch in switch position II. Main actuating directions 2 and 4 with 2 switching elements each. As stayput switch in switch positions I and II. Main actuating direction 3 not used. Option **V1** (mech. locking of switch position I to switch position II)

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**, bellow **W** for installation.

KCB4E4E4E4E5678DW

Series KC...

Switching characteristics ¹⁾

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

Order code	Switch position	
	I	II
1	⊕	-
2	⊕	⊕
3	⊕	●
4	●	-
5	●	●
6	●	⊕

Switching functions ²⁾

Contact state in switch position

	0	I	II		0	I	II
A	1	—	—		1	—	—
	2	—	—		2	—	—
	3	—	—		3	—	—
B	1	—	—		1	—	—
	2	—	—		2	—	—
	3	—	—		3	—	—
C	1	—	—		1	—	—
	2	—	—		2	—	—
	3	—	—		3	—	—
D	1	—	—		1	—	—
	2	—	—		2	—	—
	3	—	—		3	—	—
E	1	—	—		1	—	—
	2	—	—		2	—	—
	3	—	—		3	—	—
F	1	—	—		1	—	—
	2	—	—		2	—	—
	3	—	—		3	—	—
G	1	—	—		1	—	—
	2	—	—		2	—	—
	3	—	—		3	—	—
H	1	—	—		1	—	—
	2	—	—		2	—	—
	3	—	—		3	—	—
K	1	—	—		1	—	—
	2	—	—		2	—	—
	3	—	—		3	—	—

Ordering code

K	C																		
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Series

Connection

Tab connector 2.8 x 0.5 IEC 760
Screw terminal

A
B

Main actuating direction 1

Switching characteristics ¹⁾ —
Switching function ²⁾ —

Main actuating direction 2

Switching characteristics ¹⁾ —
Switching function ²⁾ —

Main actuating direction 3

Switching characteristics ¹⁾ —
Switching function ²⁾ —

Main actuating direction 4

Switching characteristics 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

Bellow for installation

W

Bellow for surface mounting

X

Center switch position 0 locking

V0

Switch position I to II locking

V1

Center position switch

Z

All-round actuation

R

1) See "Switching characteristics" table. Actuating directions that 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.