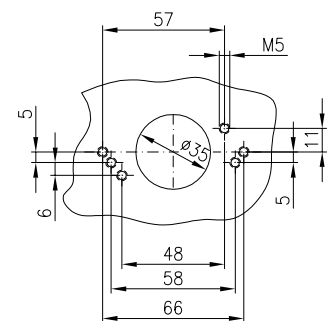
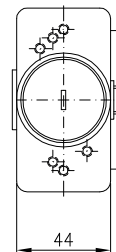
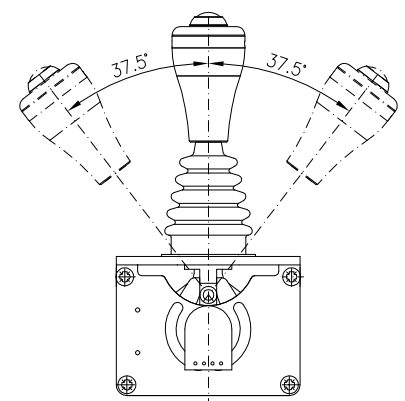
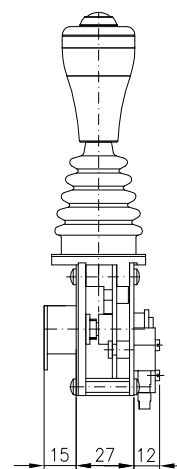
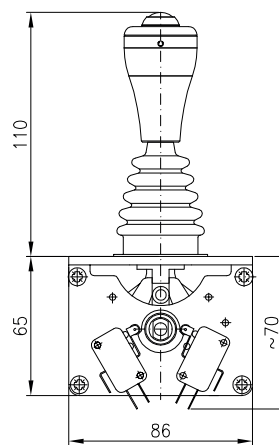
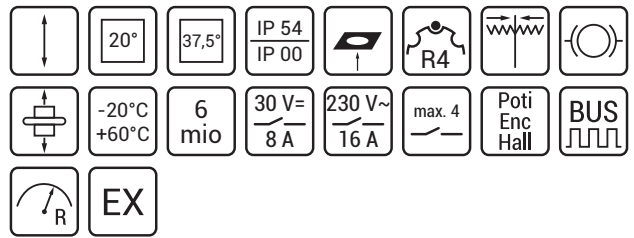


STO

The solid one.



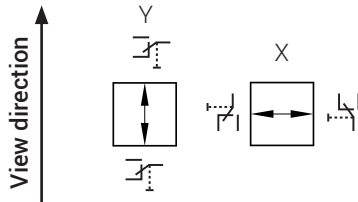
Both standard and custom solutions can be produced based on our modular principle. The sturdy metal cast drive block used as standard by Spohn + Burkhardt assures a long service life and high number of switching cycles. Including spring-return to center, friction brake and mechanical interlock, the modular concept enables a wide range of options and variations. We provide this joystick in versions either for 5-0-5 steps latching or with spring-return. A combined version with detent contact positions and momentary contact positions is also

possible. Equipped with micro-switches, double contact elements, potentiometers or absolute encoders, it can be used for a wide range of demanding control tasks. With an integrated bus interface, it works just as reliably as a bus node as with a valve amplifier for activation of solenoid valves. Various handles complete this joystick with optical and tactile features.

This joystick is frequently used in control consoles, construction machinery, municipal vehicles and in work platforms.

Drive arrangement for 1-0-1 position

Dimension sheet TI-ST0



ST0 - W

ST0 - R W

Scope of delivery/ design:

- Handle G27 for lever length 90 or 110 mm, without Z
- Handle G57 for lever length 70 mm
- Lever deflection $\pm 20^\circ$
- ST0 without spring return
- ST0-R with spring return
- Lever length 110 mm, on demand 90 or 70 mm, please note restrictions.
- Contact circuit W, see TI-S-8

Additional technical information:

- Electrical TI-ST0
- Mechanical TI-ST0
- Contact circuit TI-S-8

Options:

- Mechanical interlock Z with handle G47-Z
(only for lever length 90 or 110 mm possible)
- Hose strap for rubber boot
- Handles according to combination table
Additional prices on the corresponding handle sheets
- Wiring to connection cable or plug

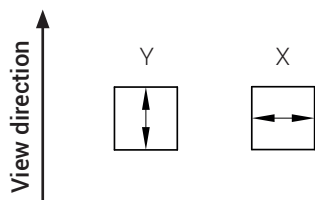
Type code:	11	G27
	09 Y	G57
	07 X R	G47-Z W
Type	ST0	
Lever length 110, 90, 70 mm		
Arrangement		
empty=without spring return, latching		
R=with spring return		
Handle, with or without mechanical interlock		
Contact circuit		

Note:

Joystick ST0 with G40 or G4T handle only in combination with lever length 09.

Drive arrangement stepless with microswitch and potentiometer

Dimension sheet TI-ST0



ST0 -

Y
X

 E

Scope of delivery/ design:

- Additional price for spring return, friction brake see options, one option must be selected
- Handle G27 for lever length 90 or 110 mm, without Z
- Handle G57 for lever length 70 mm
- Lever deflection ca. $\pm 37,5^\circ$
- Lever length 110 mm; on demand 90 or 70 mm, please note restrictions

Additional technical information:

- Electrical TI-ST0
- Mechanical TI-ST0
- Contact circuits see TI-S-8

Options:

- Spring return R
 - Friction brake B
 - Mechanical interlock Z with handle G47-Z (only for lever length 90 or 110 mm possible)
 - Hose strap for rubber boot
 - Special notching disc
 - Contact circuit: P0
 - P, 8P1
 - 9P1
 - Potentiometer, amplifiers
 - Handle according to combination table
- Additional prices on the corresponding handle sheets
- Wiring to connection cable or plug

Type code:

					P	
	11			G27	P0	
	09	Y	R	G57	8P1	G5
ST0	07	X	B	G47-Z	9P1	G55

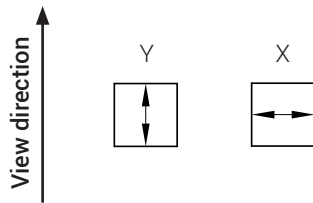
Type						
Lever length 110, 90, 70 mm						
Arrangement						
Spring return (R), friction brake (B)						
Handle, with or without mechanical interlock						
Contact circuit						
Potentiometer						

Note:

Joystick ST0 with G40 or G4T handle only in combination with lever length 09.

Drive arrangement with contact block NS00

Dimension sheet TI-ST0



ST0N -

Y
X

Scope of delivery/ design:

- Basic version with detents for max. 5-0-5 positions
- Additional price for spring return, friction brake see options
- Handle G27 for lever length 90 or 110 mm, without Z
- Handle G57 for lever length 70 mm
- Lever deflection, depending on contact circuit maximum $\pm 37,5^\circ$
- Lever length 110 mm; on demand 90 or 70 mm, please note restrictions
- Bus interface and Ex version on request

Additional technical information:

- Electrical TI-ST0
- Mechanical TI-ST0
- Contact circuits see TI-S-1, ...-2, ...-3, ...-4

Options:

- Spring return R
- Friction brake B
- Mechanical interlock Z with handle G47-Z (only for lever length 90 or 110 mm possible)
- Hose strap for rubber boot
- Special notching disc
- Contact circuit
- Potentiometer, amplifier, encoder
- Handle according to combination table
Additional prices on the corresponding handle sheets
- Wiring to connection cable or plug

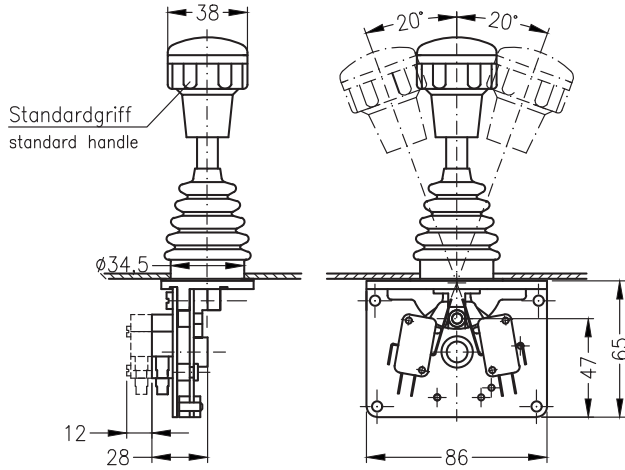
Type code:	11	09	Y	R	G27	30	G5
	07	X	B	G47-Z	8P1	PQ55	
Type	ST0N						
Lever length 110, 90, 70 mm							
Arrangement							
empty=detent							
R=spring return							
B=friction brake							
Handle, with or without mechanical interlock							
Contact circuit							
Potentiometer							

Note:

Joystick ST0 with G40 or G4T handle only in combination with lever length 09.

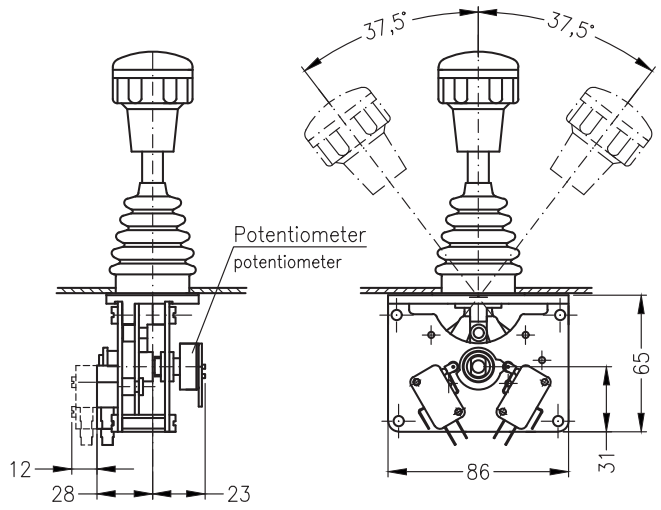
1-0-1 Stellungen mit Mikroschaltern

1-0-1 steps with micro switches



stufenlos mit Mikroschalter und Potentiometer

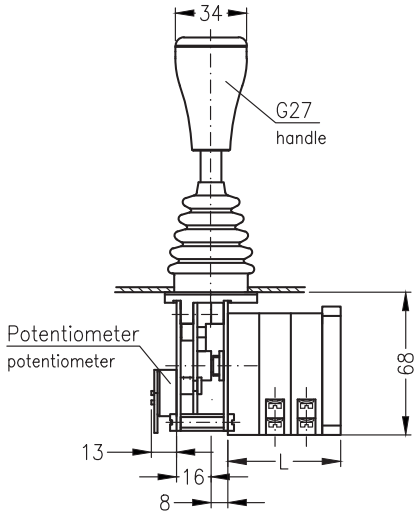
with micro switch and potentiometer



mit Kontaktblock NS0 für max. 4-0-4 Stellungen

Potentiometeranbau möglich

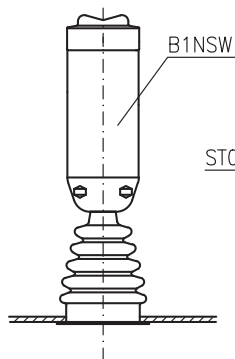
with NS0 double contactblock max. 4-0-4 step, potentiometer possible



Anzahl Doppelkontaktelemente number of double contact elements	1	2	3
L	40	55	70

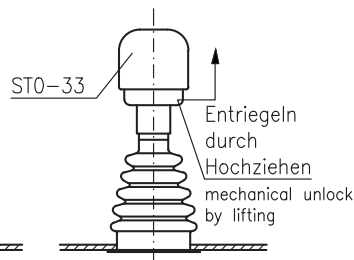
mit Ballgriff

with palm handle



mit mechanischer Nullstellungsverriegelung

with mechanical interlock



Befestigungsmaße

mounting dimensions

