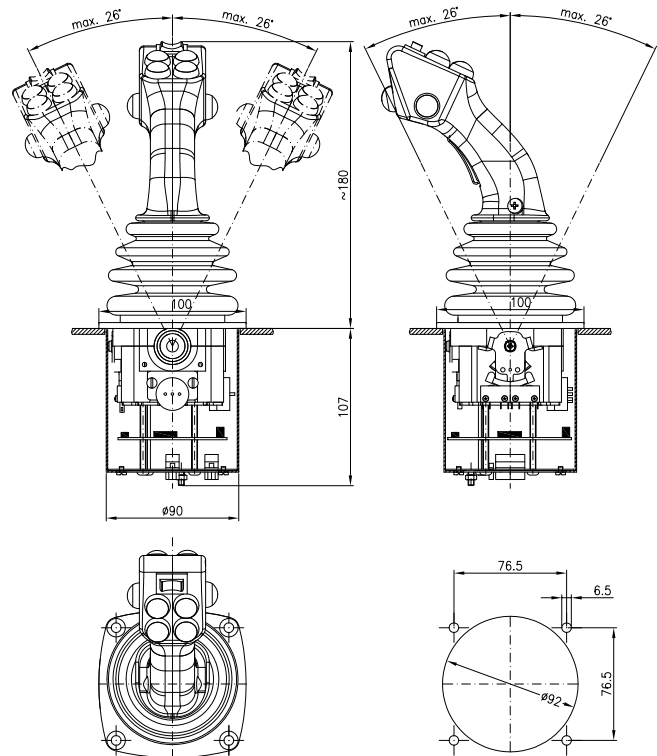
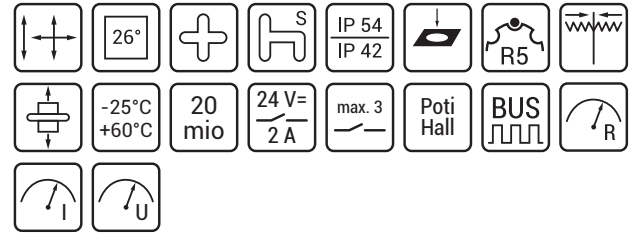


NS3

Our bus professional.



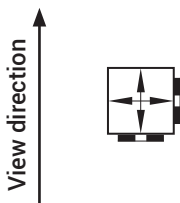
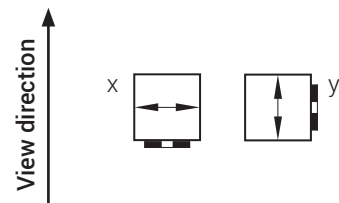
Metal gears and aluminum pressure casting elements are the highest Spohn + Burkhardt quality features for this compact precision joystick. The bearing is provided in a special pairing of bronze and plastic and enables very precise and sensitive work. The special console design enables activation of electronic elements such as Hall sensors and potentiometers and the use of up to three switch contacts. Several bus and amplifier printed circuit boards are available as units that can be integrated on the underside with special encapsulation for EMC purposes. Pulse-width-modulated power distribution for activation

of solenoid valves is also available. Of course, we also offer special gates for the guidance of the sturdy 12 mm handle shaft in addition to the standard gates. In combination with bus systems, the NS3 is suitable for tough conditions in construction, agricultural, and forestry applications, as well as for special machinery applications. There is also a wide range of handle options available from our modular system, or we can work with you to develop a custom version specifically for your requirements.

Drives 1- and 2-axis

Drive E
Arrangement Y, X

Drive V



NS3--AK E

X
Y

 R

NS3--AK V R

NS3G--AK E

X
Y

 R

NS3G--AK V R

Project planning note:

Legend:



Mounting direction potentiometer

The handles are always aligned in the direction of view.
The direction of view is determined by drive and arrangement.

Scope of supply, options, type code

Scope of supply NS3 • Handle G22 without inserts • Rubber boot • Spring return • Zero notch		Scope of supply NS3G • Handle G22 without inserts • Rubber boot • Spring return • Zero notch	
Options Handles Potentiometer Contact circuits Electronic		see sheet G-Ü E-Electronic-1 TI-S-NS3 E-Electronic-3	
Technical information		see TI-NS3	

Options: • Contact circuits • Spring return without zero notch		Additional charge: see sheet J-NS3-4/4 without additional charge	
		RL	
• Cross gate • Special limiting gate • Special gate • Slot gate		KK SAK SK SZK	
• Mechanical interlock 1)		Z	
• Special notching disc • Lever length 70 mm (only in combination with G9, G25 handle) • Wiring to connection cable or plug		SRS	

Type

Lever length 180 | 140 | 110 mm

Limiting | cross | special gate

Single | double axis

Spring return (R) | spring return without zero notching (RL)

Mechanical interlock¹⁾

Contact circuit in view direction

Contact circuit in cross direction

Potentiometer in view direction

Potentiometer in cross direction

Electronic

AK²⁾

KK

18 SAK EX

NS3 14 SK EY R Z MP1.MP1. + BLR10B. BLR10B. +

NS3G 11 SZK V RL

CANopen

SAEJ19139

Profibus

ProfiNet

Profinet-Profisafe

Modbus

Ethernet IP

mA-Ausgang

1) only with cross or slot gate available

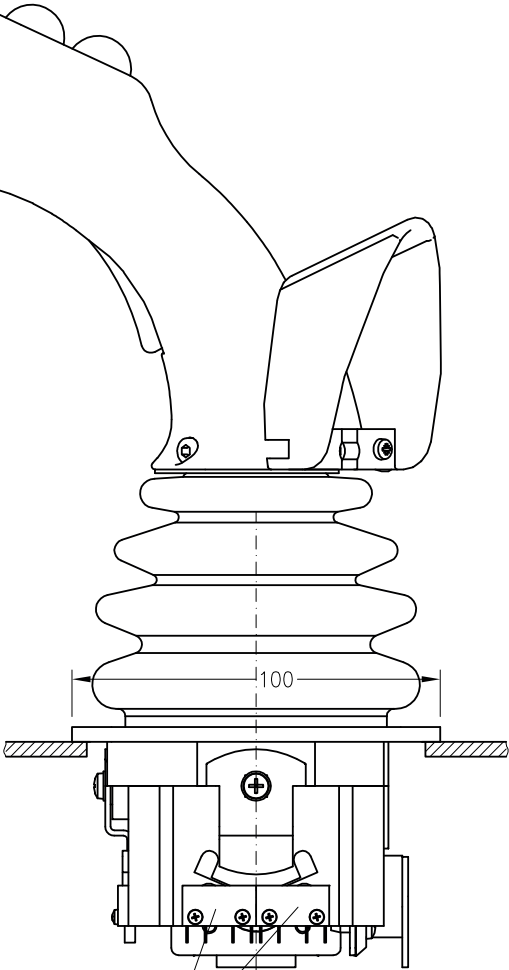
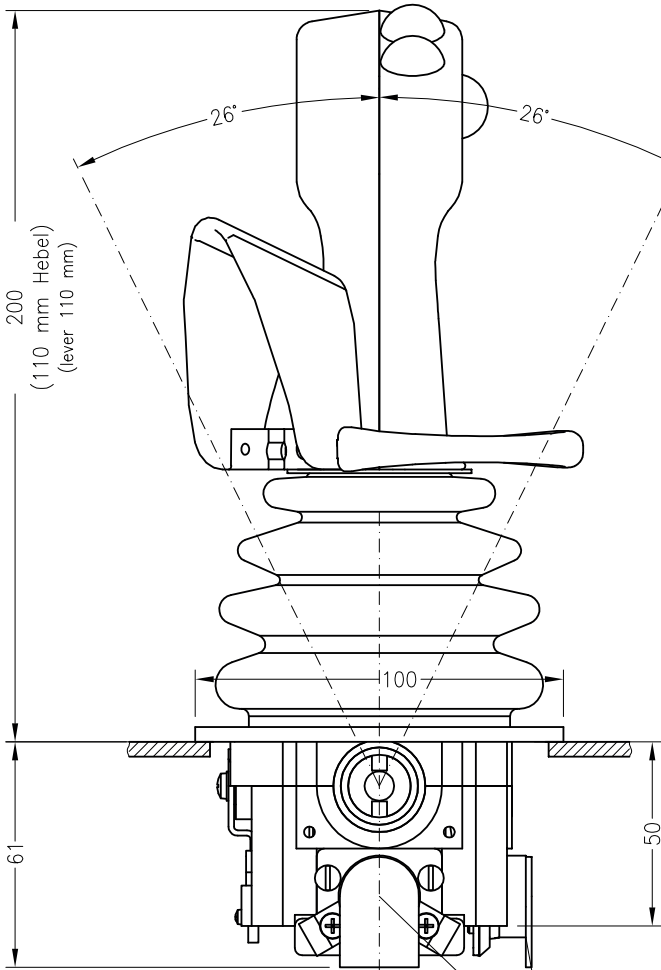
2) AK= symmetrical limiting gate

Contact circuits NS3, NS3G

Standard circuits				
Solder connection		Zero notching	5-0-5 tactile steps	
Silver contact				
M	Microswitch	–	–	
M1	Microswitch	x	–	
	Double contact element	x	–	
Standard circuits for potentiometers				
Solder connection		Zero notching	5-0-5 tactile steps	
Silver contact				
MP	Microswitch	–	–	
MP1	Microswitch	x	–	
MP5	Microswitch	x	x	
PN	Double contact element	x	–	
5PN	Double contact element	x	x	
PNN	Double contact element	x	–	
5PNN	Double contact element	x	x	
8P1	Double contact element	x	–	
5P	Double contact element	x	x	

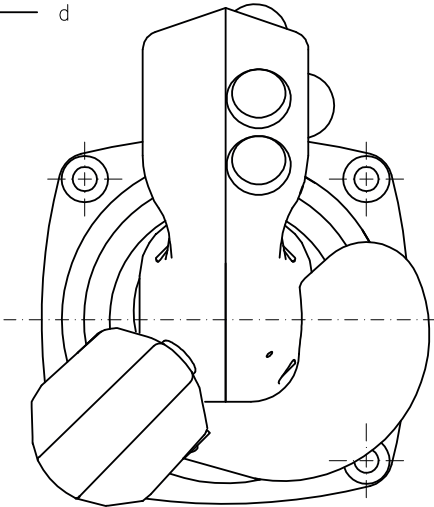
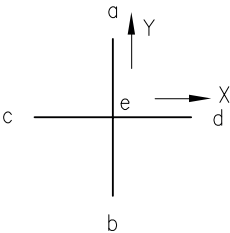
Contact circuits see sheet TI-S-NS3

Notes:
Joysticks without potentiometer: Lever deflection 14°.
Joysticks with potentiometer: Lever deflection 26°
Joysticks one axis with
and one axis without potentiometer: Lever deflection 26°



Potentiometer
potentiometer

Mikroschalter
microswitch



Einbauöffnung
mounting dimensions

