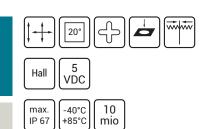
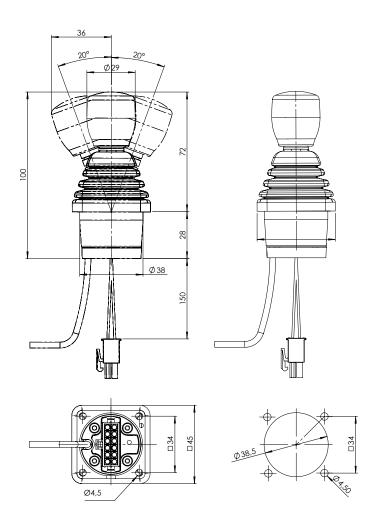
Joystick HS0 **J**-HS0-1/2

# HS0

**J**-HS0-1/2

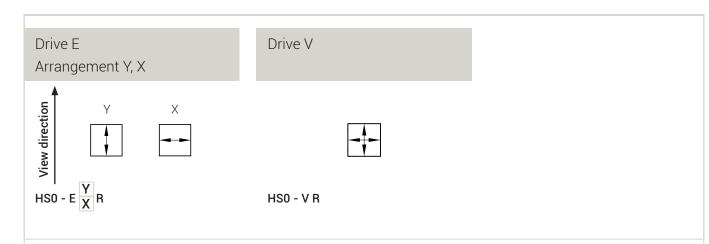






The contactless, wear-free 3D Hall sensor system of this compact joy- so that previously not possible console designs can be realized. Various stick in combination with the stable mechanism results in a control sys- gates and a variety of handle shapes complete the range of application. tem with a very high number of switching cycles. In addition to a Spobu- The joystick is used in particular in agriculture, construction machinery typical stable ferromagnetic metal base, the low height and the 12 mm and radio remote controls. It can be easily intergrated into complex conhandle are the characteristics of this new joystick. The extremely com- trol panels and systems. pact design allows use in even the smallest enclosures and consoles,

Joystick HS0 J-HS0-2/2 J-HS0-2/2



### Scope of supply HS0 basic version:

- 3D-Hall-sensor system, redundant
- Analogue output signals A1
- Connection side: IP00, connection: cable 0,5 m
- Lever deflection ± 20°
- Limiting gate AK (square)
- With prefered guidance
- Spring return in middle position
- · Handle G57-12, boot
- Installation from above

## Electrical, mechanical characteristics:

• see TI-HS0-1/3,-2/3

### **Dimensions**

• see TI-HS0-1/3,-3/3

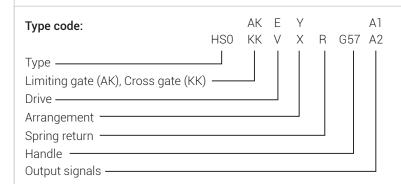
# Options:

Handles see sheet G-Ü

Functional safety/

Pld-ability on demand

- Cross gate KK (only in combination with V-drive)
- Analogue ouput signals A2
- Wiring to connection cable or plug



## Combinable handles:

- · Standard handle without inserts
- · Handles with inserts

G57

G20, G21, G22,

G9, G25, G51, G40, G4T

G50

Handle

Technical information Joystick HS0

**TI**-HS0-1/3

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## Installation dimensions

TI-HS0-1/3

Mounting from top

Mounting opening ø 38,5 mm diameter, additionally 4 mounting holes 4,5 mm

Flange dimension 45 x 45 mm

Installation depth, version: A1, A2 drive block 26 mm + cable exit at the bottom (space requirements

for cable)

## Mechanical data

Drive block material Metal Lever deflection angle 20° Repeat accuracy center position  $\pm 1^{\circ}$ 

Mechanical lifetime > 5 mio cycles

Operating force (lever 60 mm) Spring 1: 2,4....4,2 N (handle small)

Spring 2: 8,4....14,7 N

Temperature range -40°C ... +85°C

Protection degree with standard handle

(above frontplate)

IP67

TI-HS0-2/3 Technical information Joystick HS0

**TI**-HS0-2/3

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## Electrical data

Sensor Sensor type Resolution Linearity EMV immunity EMV emission

Voltage output signal Supply voltage U<sub>B</sub> Current consumption Load resistor Output signal full redundant contactless dual-die 3D-HALL 8-Bit (@ 20° deflection angle) max. +- 3% rel. linearity DIN EN 61000-6-2:03.2006 DIN EN 61000-6-3:09.2011

<u>A2</u>

5 VDC ± 0,5

ratiometric,

redundant,

contrary signals

0,5 ... 4,5 VDC ± 0,15

 $< 35 \, \text{mA}$ 

 $> 10 \text{ k}\Omega$ 

A1 5 VDC ± 0,5 < 35 mA > 10 kΩ 0,5 ... 4,5 VDC ± 0,15 ratiometric, redundant

ratiometric, redundant, in line signals

Center signal 2,5 VDC ± 0,15

2,5 VDC ± 0,15

Pin assignment (lead wire 150 mm with connector 12 pol. AMP Mate-N-Lock 770581-1 at the end):

Description	Pin	colour lead wire
Supply voltage 1	1	red
GND 1	2	brown
Signal S1, x-axis	3	blue
Signal S1, y-axis	7	violet
Supply voltage 2	5	orange
GND 2	6	black
Signal S2, x-axis	4	green
Signal S2, y-axis	8	yellow

**TI**-HS0-3/3

Dimension sheet Joystick HS0 **TI**-HS0-3/3

