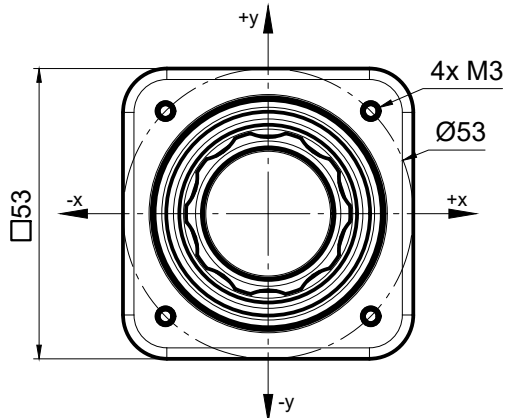
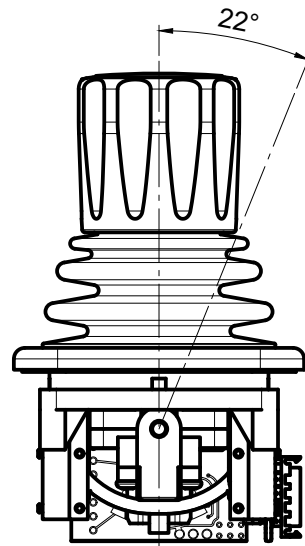
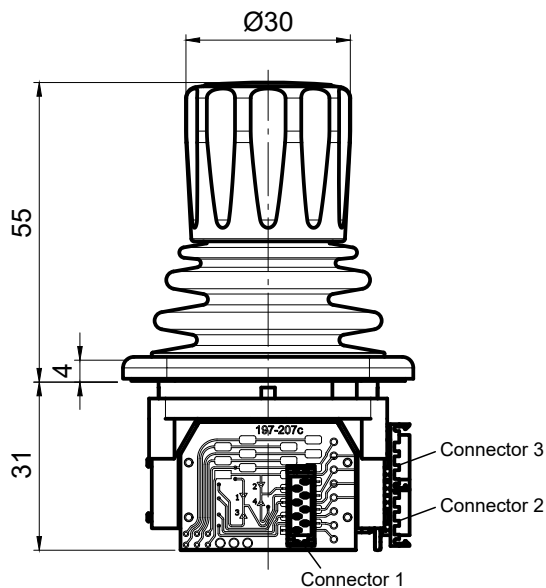
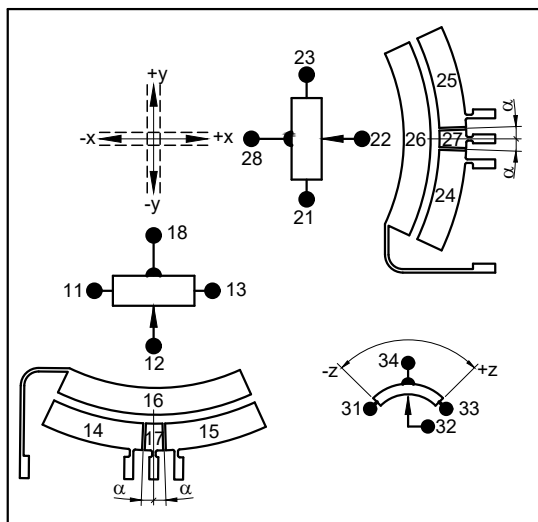
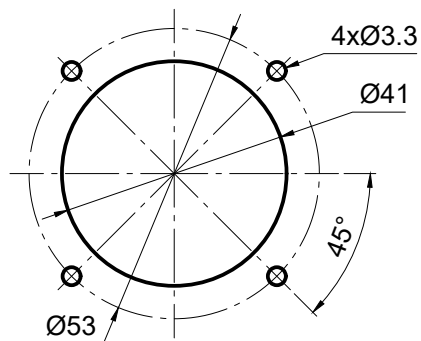
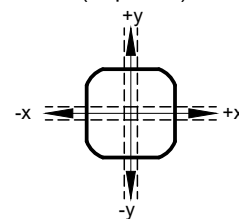




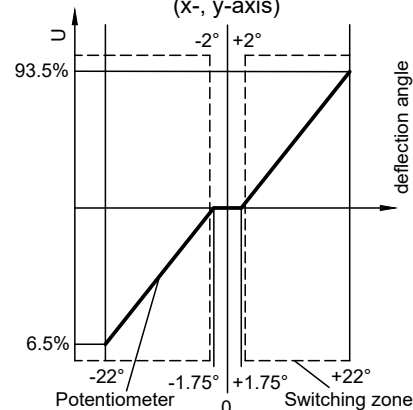
Panel mounting holes



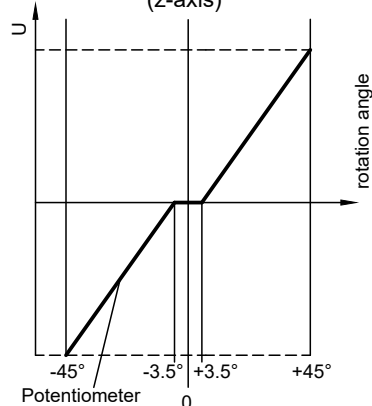
Gate  
(Top view)



Output diagram  
(x-, y-axis)



Output diagram  
(z-axis)



## Description

Joystick Type SK 197-0150

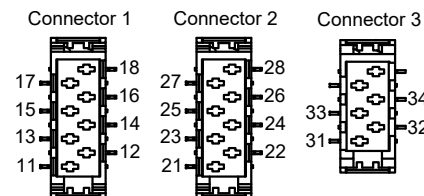
|                      |                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------|
| Number of axes       | 3-axes, x-, y-, z-axis                                                                           |
| Operation by         | Winter twist handle                                                                              |
| Connector            | Micro-Match, Female-on-Board Connector<br>2x 8-poles: P/N: 338069-8<br>1x 6-poles: P/N: 338069-6 |
| Cross guidance       | soft                                                                                             |
| Center tab           | x-, y-axis : $\pm 1.75^\circ$ / z-axis : $\pm 3.5^\circ$                                         |
| Retaining spring     | Middle, P/N: 60-112.03                                                                           |
| Switch function      | x-, y-axis : 1-1-1                                                                               |
| Switchpoint $\alpha$ | $\pm 2^\circ$                                                                                    |
| Mechanical detents   | none                                                                                             |

## Electrical characteristics

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| Resistance value  | 5 kOhm $\pm 20\%$                                         |
| Power dissipation | 0.2 Watt at 40°C per axis                                 |
| Contact rating    | Zero potential difference between segments<br>5 V DC, 5mA |
| Operating voltage | 30V DC max.                                               |

| Axes      |       | Potentiometer     |            | Switch function          |      |
|-----------|-------|-------------------|------------|--------------------------|------|
| Direction |       | Colour/<br>number | Center tab | Joystick in mid-position |      |
| x-axis    | ↑ +x  | 13                | 18         | 15                       | open |
|           | Wiper | 12                |            | 16                       | 17   |
|           | ↓ -x  | 11                |            | 14                       | open |
| y-axis    | ↑ +y  | 21                | 28         | 25                       | open |
|           | Wiper | 22                |            | 26                       | 27   |
|           | ↓ -y  | 23                |            | 24                       | open |
| z-axis    | ↑ +z  | 33                | 34         |                          |      |
|           | Wiper | 32                |            |                          |      |
|           | ↓ -z  | 31                |            |                          |      |

## Pin assignment



|                      |  |            |         |
|----------------------|--|------------|---------|
| Maßstab 1:1          |  | Position - | Menge - |
| All dimensions in mm |  |            |         |
| Joystick             |  | Blatt -    |         |
| 197-0150             |  | Bl         |         |



S:\Entwicklung\01\_CAD-Daten\02\_DWG\DWG\_SK197\Typenzeichnungen\197-0150.dwg