The multi-axis controller V6 / VV6 is available in either single-axis or multi-axis options and is a robust controller used commonly in crane and hoisting applications. The modular design and many possibilities of combination with our handles enables the switching device to be used universally. The V6 / VV6 is resistant to oil, maritime conditions e.g. offshore / vessels, UV radiation typically from the sun.

### Technical data

- **Mechanical life V6**: 10 million operating cycles
- **Mechanical life VV6**: 20 million operating cycles
- **Operation temperature**: -40°C to +60°C
- **Storage temperature**: -50°C to +80°C
- **Degree of protection**: IP54 front

### Example

- **Basic unit**: V62L 2-axis left
- **Control-handle extended**: S5 -20 mm
- **Gate**: P Cross gate
- **Grip / palm grip**: T Dead man
- **Axis 1 (direction 1-2)**: 01 2 contacts (2A 250 V AC15), Z Spring return, P Potentiometer
- **Axis 2 (direction 3-4)**: 03A 6 contacts (4A 250 V AC15), R Friction brake, C Opto-electronical encoder
- **Description axis 1 (direction 1-2)**: A05 Arrangement MS21, P134 Potentiometer T396 2 x 5 kOhm
- **Description axis 2 (direction 3-4)**: A110 Arrangement MS24-0, C01 OEC 2-1-1
- **Special model**: X Special / customer specified

Technical details may vary based on configuration or application! Technical data subject to change without notice!
Multi-axis controller
V6 / VV6

Combination possibilities with our handles

---

**Basic unit**
- V61L 1-axis left
- V61R 1-axis right
- V61.1 1-axis
- V64.1 1-axis
- V62L 2-axis left
- V62R 2-axis right
- V64 2-axis

**Reinforced version**
- VV61L 1-axis left
- VV61R 1-axis right
- VV61.1 1-axis
- VV64.1 1-axis
- VV62L 2-axis left
- VV62R 2-axis right
- VV64 2-axis

**Control-handle extended***
- Standard 180 mm
- S3 -40 mm
- S5 -20 mm
- S8 +20 mm

*Only available in combination with handle!

**Gate**
- P Cross gate
- P X Special gate

---

Identification of the installation variants with switching directions:

- V61L/VV61L
- V61R/VV61R
- V62L/VV62L
- V62R/VV62R
- V64/VV64

---

Technical details may vary based on configuration or application! Technical data subject to change without notice!
Multi-axis controller
V6 / VV6

Grip / palm grip

Knob (included in basic unit!)
M Mechanical zero interlock
MN Mechanical zero interlock (push down)
T Dead man
MT* Mechanical zero interlock + dead man
H Signal button
MH Mechanical zero interlock + signal button
D Push button
MD* Mechanical zero interlock + push button
DV Flush push button
MDV* Mechanical zero interlock + flush push button

*Only possible with VV6!

B... Palm grip (see Palm grip page 151)

Attention! When usage some handles reduces the deflection angle to 28 degrees!

Axis 1: direction 1-2 left / direction 5-6 right

(Standard contacts gold-plated 2A 250 V AC15)

01 □ □ □ □ □ □ □ 2 contacts
02 □ □ □ □ □ □ □ 4 contacts
03 □ □ □ □ □ □ □ 6 contacts
04 □ □ □ □ □ □ □ 8 contacts
05 □ □ □ □ □ □ □ 10 contacts
06 □ □ □ □ □ □ □ 12 contacts

A = silver contacts (4A 250V AC15)

Z Spring return
R Friction brake
(P) Possibility of mounting potentiometer and encoder (Gessmann-types)

P Potentiometer
P131 T396 2 x 0,5 kOhm l max. 1 mA
P132 T396 2 x 1 kOhm l max. 1 mA
P133 T396 2 x 2 kOhm l max. 1 mA
P134 T396 2 x 5 kOhm l max. 1 mA
P135 T396 2 x 10 kOhm l max. 1 mA

More potentiometers on request!

C Encoder
C... Encoder see page 141

Technical details may vary based on configuration or application! Technical data subject to change without notice!
## Multi-axis controller
### V6 / VV6

If both axes identical, it’s enough to describe one axis!
Example A05P134 + A05P134 => A05P134

### Axis 2: direction 3-4 left / Direction 7-8 right

(Standard contacts gold-plated 2A 250 V AC15)

<table>
<thead>
<tr>
<th>Axis</th>
<th>Contacts</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>2 contacts</td>
<td>Standard contact - arrangement see page 135</td>
</tr>
<tr>
<td>02</td>
<td>4 contacts</td>
<td>z.B. A980 MS00</td>
</tr>
<tr>
<td>03</td>
<td>6 contacts</td>
<td>A05 MS21</td>
</tr>
<tr>
<td>04</td>
<td>8 contacts</td>
<td>A0500 MS21-00</td>
</tr>
<tr>
<td>05</td>
<td>10 contacts</td>
<td>A110 MS24-0</td>
</tr>
<tr>
<td>06</td>
<td>12 contacts</td>
<td>A99 contact - arrangement according customer request</td>
</tr>
</tbody>
</table>

- **Z**: Spring return
- **R**: Friction brake
- **P**: Possibility of mounting potentiometer and encoder (Gessmann-types)

<table>
<thead>
<tr>
<th>P</th>
<th>Potentiometer</th>
<th>Resistance</th>
<th>Max. Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>P131</td>
<td>T396 2 x 0.5 kOhm</td>
<td>1 mA</td>
<td></td>
</tr>
<tr>
<td>P132</td>
<td>T396 2 x 1 kOhm</td>
<td>1 mA</td>
<td></td>
</tr>
<tr>
<td>P133</td>
<td>T396 2 x 2 kOhm</td>
<td>1 mA</td>
<td></td>
</tr>
<tr>
<td>P134</td>
<td>T396 2 x 5 kOhm</td>
<td>1 mA</td>
<td></td>
</tr>
<tr>
<td>P135</td>
<td>T396 2 x 10 kOhm</td>
<td>1 mA</td>
<td></td>
</tr>
</tbody>
</table>

More potentiometers on request!

- **C**: Encoder

C... Encoder see page 150

### Special model

**X**: Special / customer specified

### Attachments

- Indicating labels
- Indicating labels with engraving
Multi-axis controller
V6 / VV6

Technical details may vary based on configuration or application! Technical data subject to change without notice!