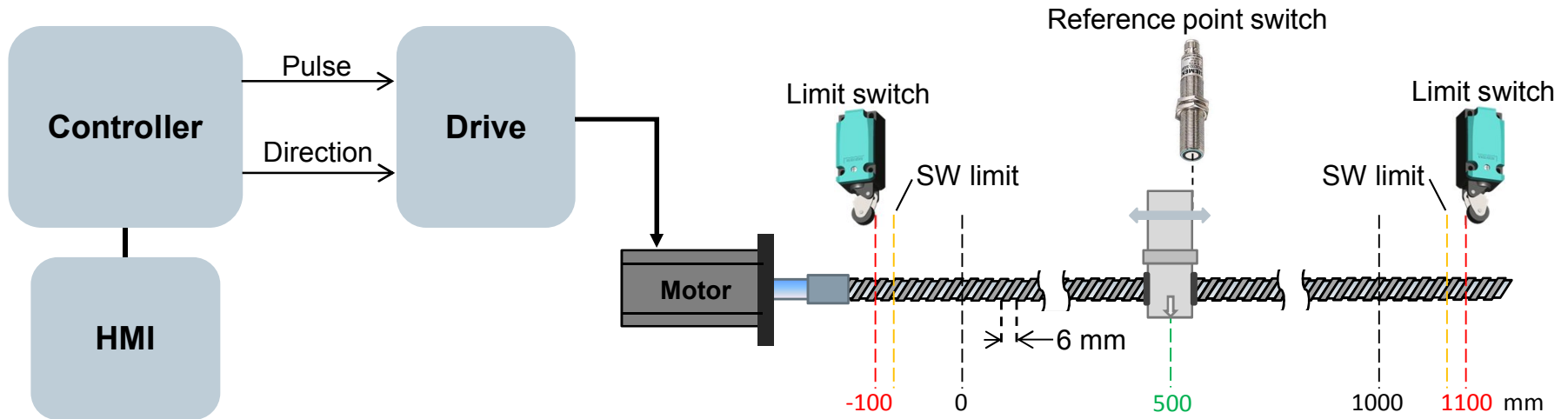


# Controlled Positioning with SINAMICS V90 and S7-1200 via the Pulse/Direction Interface, with HMI Task



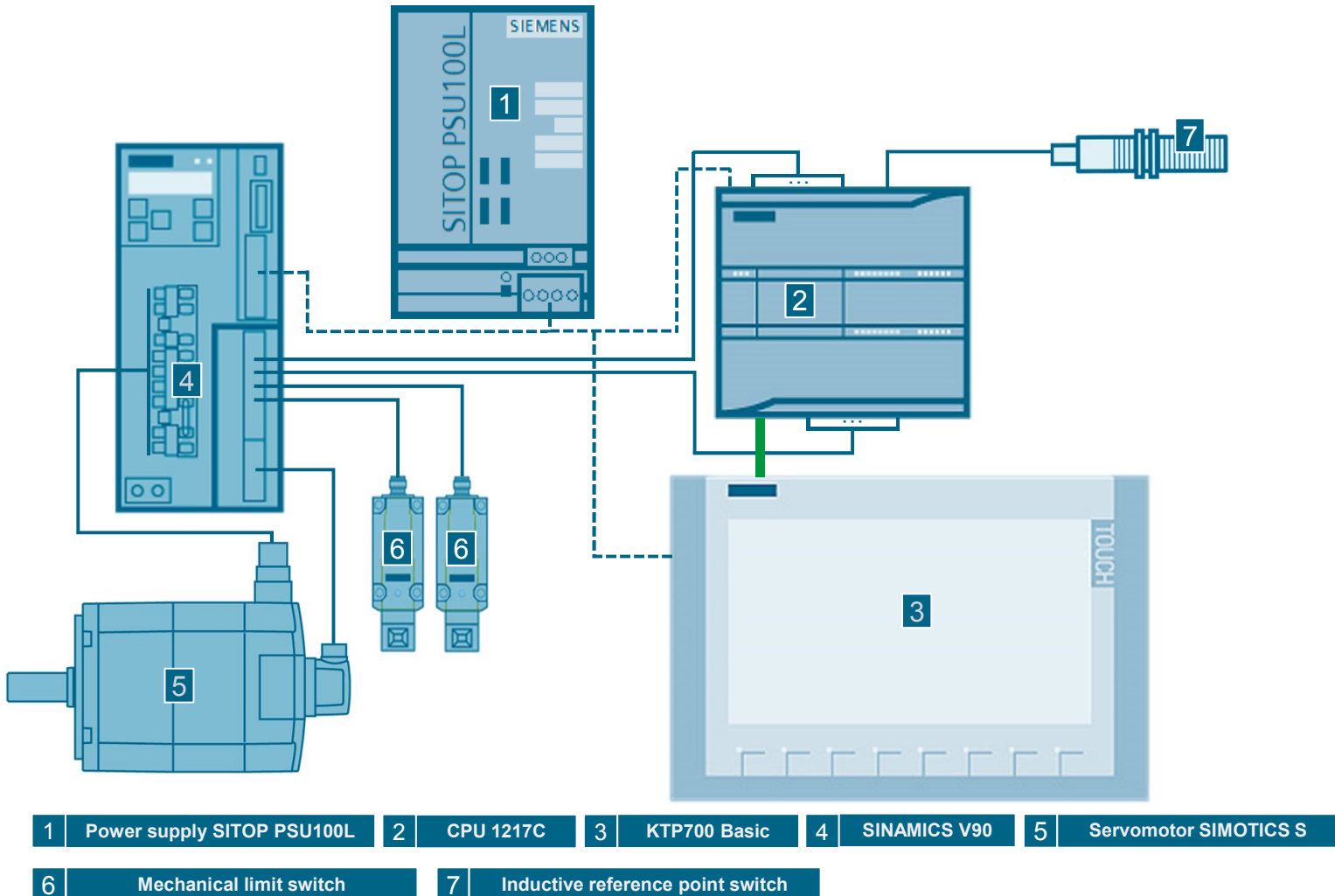
Positioning an object by means of a servo motor via a pulse/direction interface

- The following operating modes are possible:
  - Referencing
  - Jog mode
  - Absolute positioning
  - Relative positioning
  - Speed setting
  - Running a motion sequence (command table)
- Operation by means of a touch panel

Scan code to get more information!







# Controlled Positioning with SINAMICS V90 and S7-1200 via the Pulse/Direction Interface, with HMI Automation Solution







# Controlled Positioning with SINAMICS V90 and S7-1200 via the Pulse/Direction Interface, with HMI

## Main Components

		Product	Function description
1		<b>Power supply SITOP PSU100L</b> (Order No. 6EP1333-1LB00)	<ul style="list-style-type: none"> <li>Power supply for CPU, drive and HMI panel</li> </ul>
2		<b>CPU 1217C, DC/DC/DC</b> (Order No. 6ES7217-1AG40-0XB0)  or  <b>CPU 1215C, DC/DC/DC</b> (Order No. 6ES7215-1AG31-0XB0)	<ul style="list-style-type: none"> <li>Controlling the movement process via the pulse/direction interface</li> </ul>
3		<b>SIMATIC HMI KTP700 BASIC COLOR PN</b> (Order No. 6AV2123-2GB03-0AX0)  or  <b>SIMATIC HMI KTP600 BASIC COLOR PN</b> (Order No. 6AV6647-0AD11-3AX0 )	<ul style="list-style-type: none"> <li>Operating the movement process in the different operating modes</li> <li>Displaying the current position of the object</li> <li>Setting the motor speed</li> </ul>
4		<b>SINAMICS V90 (0.75kW)</b> (Order No. 6SL3210-5FE10-8UA0)	<ul style="list-style-type: none"> <li>Servo transducer for controlling a motor</li> </ul>

# Controlled Positioning with SINAMICS V90 and S7-1200 via the Pulse/Direction Interface, with HMI

## Main Components

		Product	Function description
5		<b>SIMOTICS S-1FL6 (0,75kW)</b> (Order No. 1FL6044-1AF61-0AG1)	<ul style="list-style-type: none"><li>• Driving the axis</li></ul>
6		<b>Axis limit switch (e.g. mechanical switch)</b> (Specialist dealer)	<ul style="list-style-type: none"><li>• Detecting whether the object is at the limit positions</li></ul>
7		<b>Reference point switch (inductive proximity switch)</b> (Specialist dealer)	<ul style="list-style-type: none"><li>• Detecting whether the object is at the reference position</li></ul>
8		<b>SIMATIC STEP 7 BASIC V13</b> (Order No. 6ES7822-0AA03-0YA5)	<ul style="list-style-type: none"><li>• Software for programming the CPU 1217C</li><li>• Configuration of the KTP700 Basic Panel</li></ul>

# Controlled Positioning with SINAMICS V90 and S7-1200 via the Pulse/Direction Interface, with HMI

## Further Information

### Benefits

- Cost-effective possibility of positioning objects
- Simple configuration of the movement process by means of technology objects in the TIA Portal

### Range of use

- Positioning of servo valves
- Positioning of adjusting axes and feed axes in machine tools

### Weitere Informationen

- LOGO! und S71200 Sets: <http://support.automation.siemens.com/WW/view/en/35923253>
- Service und Support Portal: <http://support.automation.siemens.com>

# Controlled Positioning with SINAMICS V90 and S7-1200 via the Pulse/Direction Interface, with HMI

## Security Information

SIEMENS

For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>.