

Desktop Joystick Series MACHIV



- Several handle versions
- Desktop housing with customizable number of pushbuttons
- Optionally with USB interface

The MACHIV range is the solution for applications requiring two or three axis joysticks in a desktop enclosure. The desktop enclosure offers the ability to integrate pushbuttons for additional application specific operations.

Technical Data	
Angle of Movement X-,Y-Axis	±30° from center
Angle of Movement Z-Axis	±45° from center
Return to Center	±2%
Operating Force	< 60 mN

Potentiometers (Conduct. Plastic)	Type P	Type U
Track Resistance [kOhm]	5	10
Resistance Tolerance [%]	±20	±10
Indep. Linearity Tolerance [%FS]	±1	±1
Operating Temperature [°C]	-55+120	-65+125
Power Dissipation at 70°C [W]	0.25@40°C	1
Track Operating Angle [°]	220	260±5
Bearing	Sleeve	Sleeve
Expected Life (million cycles)	>1	ca. 10
Recommended max. Current [mA]	0.1	0.1
Max. allowed Current [mA]	1	1
Max. Voltage [V DC]	35	70

Hall Sensors	
Supply Voltage	5 VDC ±10%
Power Consumption 2 Axes / 3 Axes	4.8 to 11 mA / 7.2 to 16.5 mA
Center Voltage	2.5 V ±200 mV
Expected Life	1 million cycles typ.
Indep. Linearity Tolerance	±2%
Operating Temperature	-25+85 °C
Storage Temperature	-40+85 °C

Pushbuttons	Current [mA]	Voltage [V]	Expected Life	Colour
Handle E	Switching P	ower 0.1 W	5 million	black
Handle G	50	24	1 million	black
Handle H	500	12	5 million	black
Handle 9	500	12	5 million	black



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### Please contact us for information regarding stock articles, delivery times and minimum order quantities.

Order Code								
Series	MACH IV							
Axes 2 Axes 2 Axes with Pushbutton 3 Axes 3 Axes with Pushbutton		2 3 4 5						
Rectangular Desktop Housing			2					
Spring Return Spring Return (50% enforced springs)				1 7				
Handle 'J' for 2 Axes, w/o Pushbutton Handle "K" for 2 Axes, w/o Pushbutton Handle "L" for 2 Axes, w/o Pushbutton Handle "1" for 2 Axes, w/o Pushbutton Handle "1" for 2 Axes, w/o Pushbutton Handle "A" for 2 Axes, w/o Pushbutton Handle "B" for 2 Axes, w/o Pushbutton Handle "6" for 2 Axes, w/o Pushbutton Handle "3" for 2 Axes, w/o Pushbutton Handle "E" for 2 Axes, w/ Pushbutton Handle "G" for 2 Axes, w/ Pushbutton Handle "G" for 3 Axes, w/ Pushbutton Handle "7" for 3 Axes, w/o Pushbutton Handle "9" for 3 Axes, w/o Pushbutton Handle "S" for 3 Axes, w/o Pushbutton Handle "T" for 3 Axes, w/o Pushbutton Handle "T" for 3 Axes, w/o Pushbutton Handle "T" for 3 Axes, w/o Pushbutton Handle "O" for 3 Axes, w/o Pushbutton, Hall Sensor Handle "P" for 3 Axes, w/o Pushbutton, Hall Sensor Handle "Q" for 3 Axes, w/o Pushbuttons, Hall Sensor					JKL1AB63EGH79STOPQ			
Desktop Housings* Type 0: w/o Pushbutton, w/o external Trim Type 1: 2 square Pushbuttons, w/o external Trim Type 2: 2 rectangular Pushbuttons, w/ external Trim Type 3: 2 rectangular Pushbuttons, w/o ext. Trim Type 4: 4 square Pushbuttons, w/o external Trim Type 5: 4 square Pushbuttons, w/o external Trim Type 6: 2 square Pushbuttons, w/o external Trim						0 1 2 3 4 5		
Sensors, Output Signals* Potentiometer P for X-/Y-/Z-Axis Pot. U for X-/Y-Axis, Pot. P Z-Axis Hall Sensors for X-/Y-/Z-Axis 05V Hall Sensors for X-/Y-/Z-Axis 0,254,75V							P U K1 K3	
<b>Housing Colour</b> (Standard = Light Grey)* Black*								- SW

<sup>\*</sup> not all combinations of housings / colours / sensors are possible. Please contact us for more information.

#### Please note:

The joystick is delivered disassembled and unwired, with enclosed screws and rubber housing feet. Only special USB versions come with the housing closed and wired.

### For higher quantities or on-going demand, additional options are available

For example:

• Customer-specific cable, switches, etc.



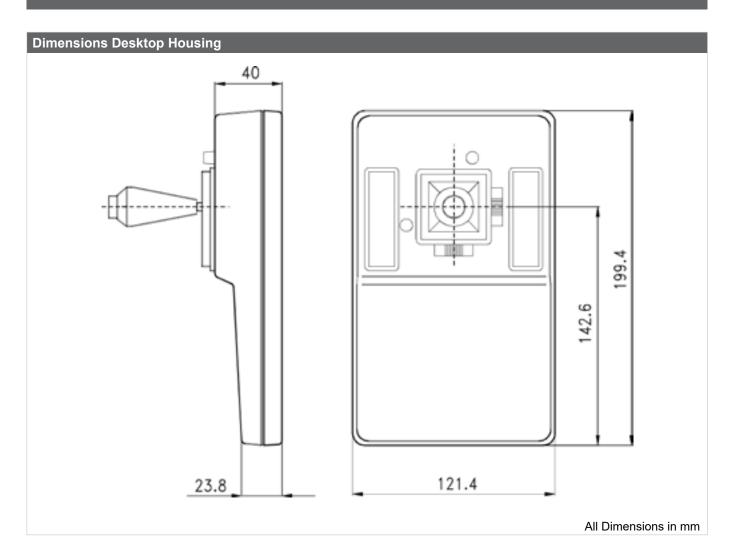
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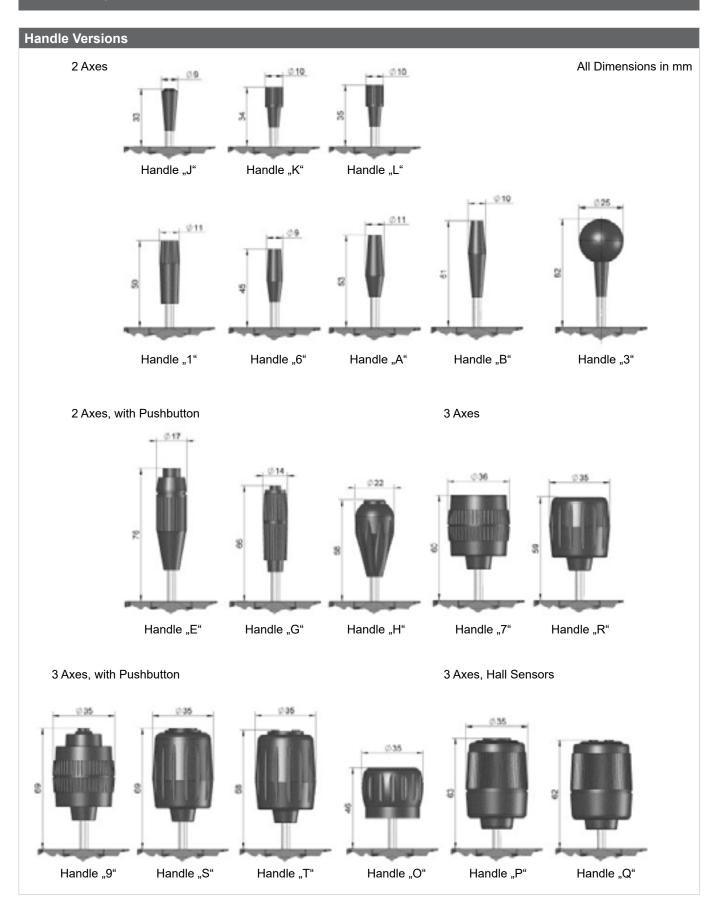
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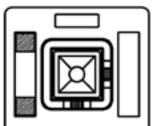


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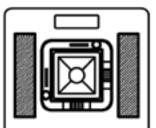
### **Housing Versions**



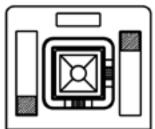
Housing "0" w/o Pushbutton internal Trim



Housing "1" 2 square Pushb. internal Trim



Housing "2" 2 rect. Pushb. external Trim

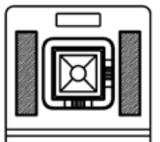


Housing "6" 2 square Pushb. internal Trim

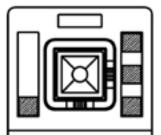
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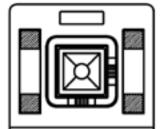
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Housing "3" 2 rect. Pushb. internal Trim



Housing "4" 4 square Pushb. internal Trim



Housing "5" 4 square Pushb. internal Trim

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