

Data Sheet for Joysticks

Finger Joystick

Series 828



- 1 to 3 Axes
- Small dimensions with high durability For indoor use
- Small deflection angles of handle

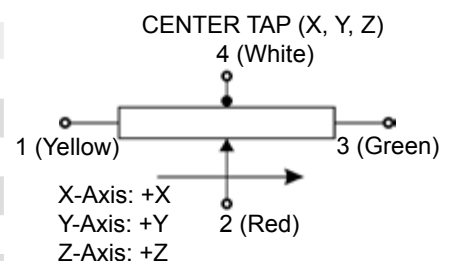
The 828 series satisfies highest demands on the joystick mechanism and the precision of the sensors, both combined into small dimensions

Technical Data Joystick

Angle of Movement X+Y Axis	$\pm 10^\circ \dots \pm 15^\circ$
Angle of Movement Z-Axis	$\pm 30^\circ \dots \pm 35^\circ$
Return to Center Accuracy X+Y Axis	$\pm 1^\circ$
Operating Force X+Y Axis	0,8 .. 2 N
Operating Force Z-Axis	15 .. 60 mNm
Lifetime	typ. 5 million cycles
Vibration 10 bis 55 Hz, 1 min.	10 G (MIL-STD-202F-204)
Shock	30 G (MIL-STD-202F-213)
Protection Grade	IP40 (IP54 with Rubber Boot, 2 Axes)
Operating Temperature	$-20^\circ\text{C} \dots +65^\circ\text{C}$
Weight	ca. 100 g (2 Axes), ca. 150 g (3 Axes)
Panel Thickness	1 .. 2 mm
Length of Wires	300 mm, AWG28 (X-/Y-Axis), AWG27 (Z-Axis)

Technical Data Potentiometer

	Type F (X- & X-Axis)	Type D (Z-Axis)
Technology	Conductive Plastic	Conductive Plastic
Nominal Total Resistance	10 kOhm	10 kOhm
Resistance Tolerance	$\pm 15\%$	$\pm 15\%$
Independent Linearity	$\pm 3\%$	$\pm 3\%$
Power Rating @ 70°C	0,1 W	0,04 W
Effective Electrical Angle of Rotation	20°	60°
max. Wiper Current	1 mA	1 mA



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Order Code

Series	828							
Axes								
1 Axis (*)		1 (*)						
2 Axes		2						
2 Axes with Pushbutton		3						
3 Axes (*)		4 (*)						
Rubber Boot			5					
Round Dress Panel			6					
Spring Return				1				
Handles								
Handle concave, 1-2 Axes, w/o Pushbutton					2			
Handle cylindrical, 1-2 Axes, w/ Pushbutton					6			
Handle, 3 Axes, w/o Pushbutton (*)					8 (*)			
no Trimm						1		
Potentiometer Type I (X & Y), Type H (Z)							9	
Limiters								
round								0
single-axis Y (*)								8 (*)
X-/Y-Axis „+“ (*)								9 (*)

Bold print = Standard options

(*) upon request

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

For example:

- Customer-specific cable
- further Nominal Total Resistances

For technical advice, projects, samples, questions about pricing, delivery times and availability please contact us

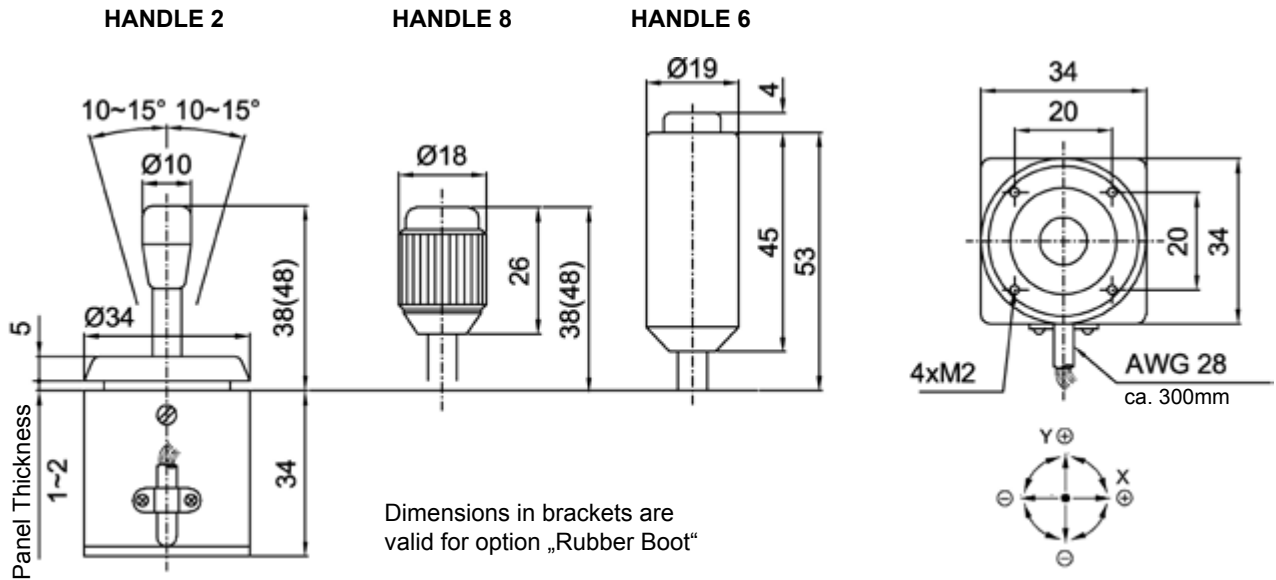
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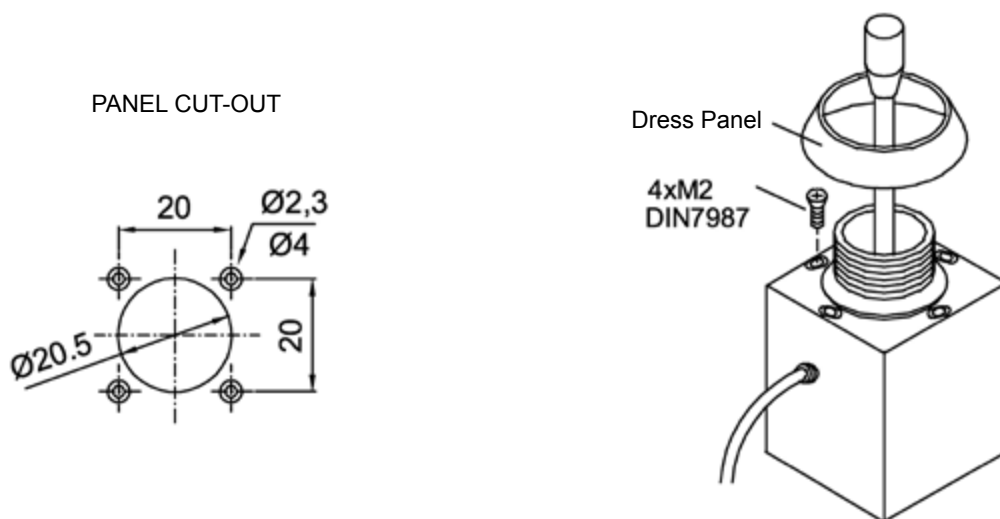
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Technical Drawing



Dimensions in mm

Installation



Dimensions in mm