

# Data Sheet for Joysticks

## Finger Joystick

Series 830



- 2 axes (special versions with 3 Axes upon request)
- Spring return to center position or friction hold
- Customer-specific handles and sensors upon request
- Angle-dependent Actuation of Microswitches

The 830 series can be configured to different applications by choosing between different sensors and handle designs. Due to the robust, at the same time smart construction the series is very cost-effective.

### Technical Data of Joystick base

Mechanical Angle of Movement X-, Y-Axes	$\pm 29^\circ$ from center
Return to Center Accuracy	$\pm 1^\circ$
Operating Force X- and Y-axis	1,6 N
Expected Life	ca. 2 Mio. cycles
Operating Temperature	$-40^\circ\text{C}..+70^\circ\text{C}$
Protection Class	IP54 (with boot)
Panel Thickness	max. 2,5 mm

### Technical Data of Standard Poti Type M (other sensors on request)

Sensor	Conductive Plastics Potentiometer
Resistance / -tolerance	5 kOhm / $\pm 15\%$
Independent Linearity	$\pm 1,5\%$ FS
Electrical rotation angle	$54^\circ \pm 6^\circ$
Max. Current	1 mA
Max. Voltage	30 VDC
Power Rating at $+40^\circ\text{C}$	0,15 W

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### Order Description

<b>Series</b>	<b>830</b>						
<b>Axes</b>		<b>2</b>					
<b>2 Axes</b>		<b>3</b> (*)					
2 Axes with Pushbutton (*)		<b>1</b> (*)					
1 Axis		<b>6</b> (*)					
1 Axis with Pushbutton (*)		<b>4</b> (*)					
3 Axes		<b>5</b> (*)					
3 Axes with Pushbutton (*)							
<b>Rubber Boot with rectangular Bezel</b>			<b>5</b>				
<b>Rubber Boot with stainless steel Bezel</b>			<b>6</b>				
<b>Flat Rubber Boot and Bezel</b>			<b>K</b>				
No Rubber Boot			<b>0</b> (*)				
<b>Spring Return</b>				<b>1</b>			
Friction Hold (*)				<b>2</b> (*)			
<b>Cylindrical Handle (Aluminium knurled)</b>					<b>A</b>		
<b>Cylindrical Handle (Duroplast)</b>					<b>B</b>		
<b>Without Trimm</b>						<b>1</b>	
<b>Potentiometer Type M</b>							<b>M</b>

(\*) upon request

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

For example:

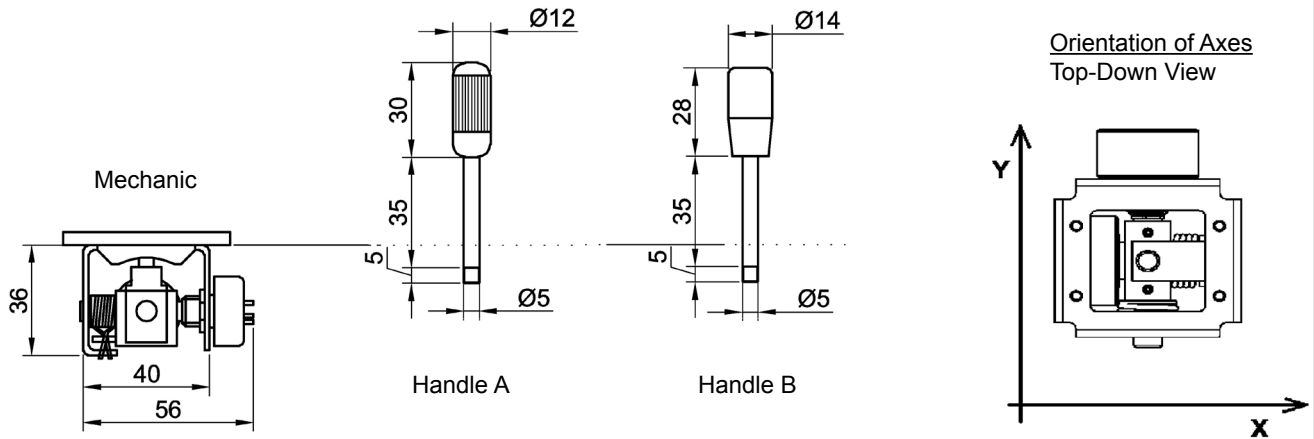
- Further handle variants, e.g. with integrated pushbutton or third axis functionality
- Angle-dependent Actuation of Microswitches
- Potentiometer with different characteristics

# Data Sheet for Joysticks

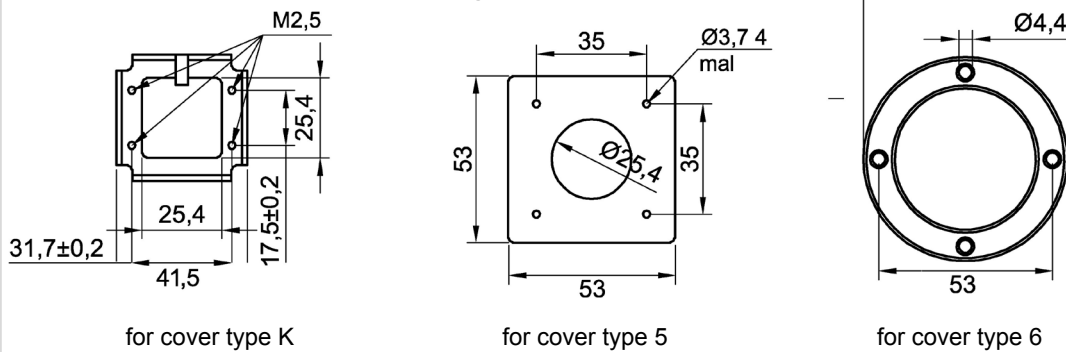
Finger Joystick

Series 830

## Technical Drawings



## Panel Cut-Out & Mounting Holes



Dimensions in mm

## Covers & Bezels



Cover Type K



Cover Type 5 black



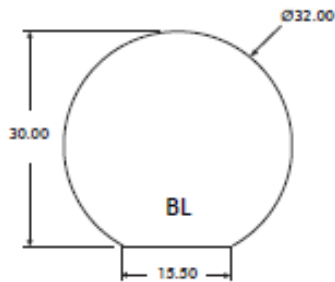
Cover Type 6 chrome-plated

# Data Sheet for Joysticks

## Finger Joystick

Series 830

### Further Handle Variants (upon request)

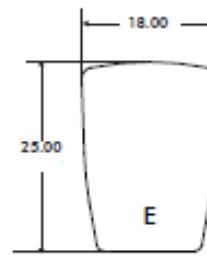


MATERIAL  
FINISH  
STANDARD COLOR  
OTHER COLORS

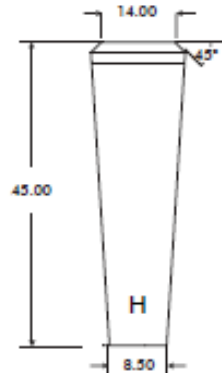
Nylon  
Sparkled Matt  
Black  
n.a.



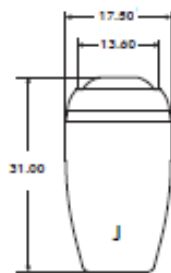
Aluminium  
Anodised  
Black  
n.a.



Nylon  
Sparkled Matt  
Black  
Upon Request

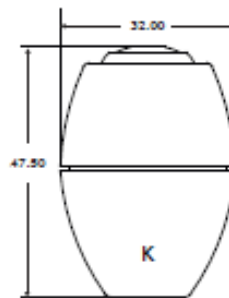


Stainless Steel  
Natural  
Stainless Steel  
n.a.

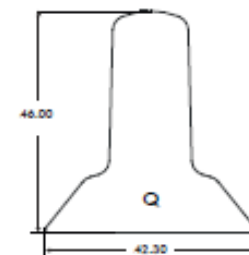


MATERIAL  
FINISH  
STANDARD COLOR  
OTHER COLORS  
NOTES

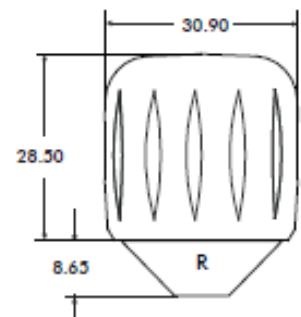
ABS  
Sparkled Matt  
Black  
Upon Request  
Pushbutton



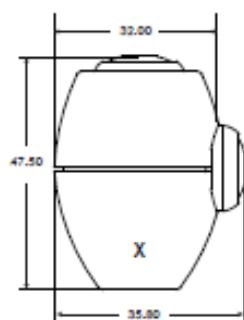
ABS  
Sparkled Matt  
Black  
n.a.  
Pushbutton



Nylon  
Sparkled Matt  
Black  
n.a.

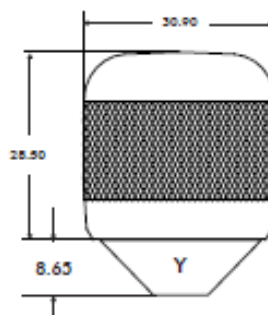


Aluminium  
Anodised  
Black  
n.a.  
Third Axis



MATERIAL  
FINISH  
STANDARD COLOR  
OTHER COLORS  
NOTES

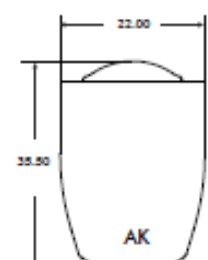
ABS  
Sparkled Matt  
Black  
Upon Request  
2 Pushbuttons



Aluminium  
Anodised  
Black  
n.a.  
Third Axis



Stainless Steel  
Polished  
Stainless Steel  
n.a.



Aluminium  
Anodised  
Black  
n.a.  
Pushbutton

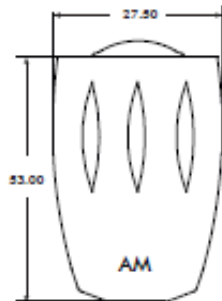
Dimensions in mm

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## Finger Joystick

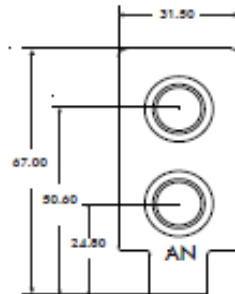
Series 830

### Further Handle Variants (upon request)



MATERIAL  
FINISH  
STANDARD COLOR  
OTHER COLORS  
NOTES

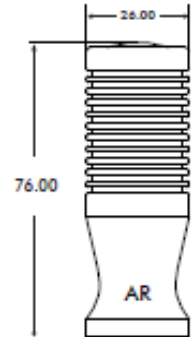
Aluminium  
Anodised  
Black  
Upon Request  
Pushbutton



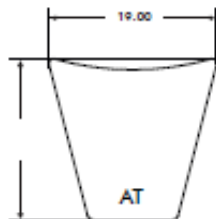
Delrin  
Gloss  
Black  
n.a.  
Pushbuttons



Aluminium  
Anodised  
Black  
n.a.



Aluminium  
Anodised  
Black  
n.a.  
Pushbutton

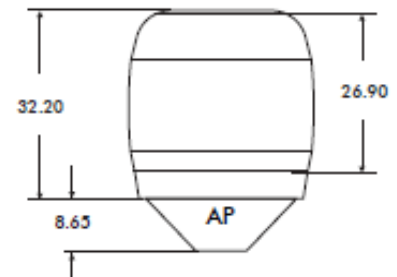


MATERIAL  
FINISH  
STANDARD COLOR  
OTHER COLORS  
NOTES

Nylon  
Sparkled Matt  
Black  
Upon Request

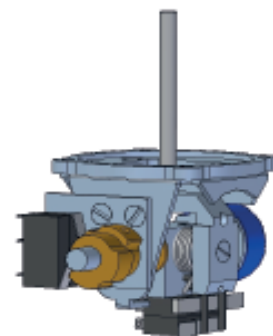
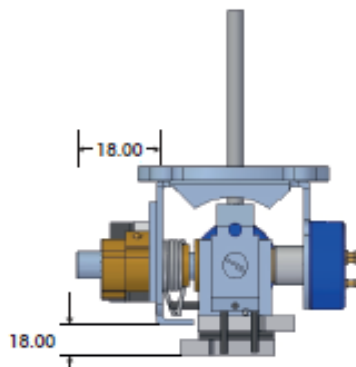


Stainless Steel  
Polished  
Stainless Steel  
n.a.



Santoprene over Nylon  
Soft Touch  
Black  
Upon Request  
Third Axis

### 2 or 4 Microswitches (upon request)



Dimensions in mm