## **Data Sheet for Joysticks**



Series 870

#### Hand Joystick



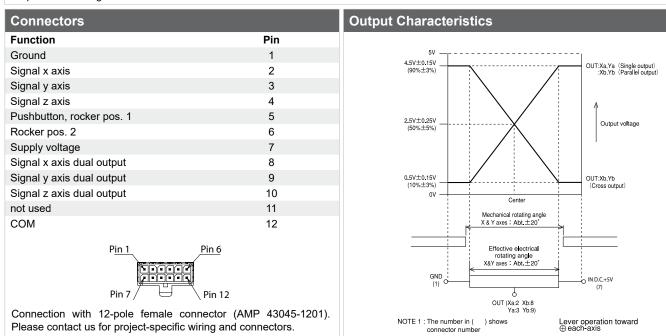
- Medium-sized heavy duty hand joystick of the highest quality with stock grip handle
- Contactless sensor technology (Hall sensors)
- Handles available with button, rocker, or third axis (z rotation)
- Easy to install thanks to the 12-pin connector in the housing

In terms of quality, the 870 series reaches a top level in the field of mechanics and electronics. Especially when used in demanding applications, such as mobile machines and special machines, influences such as vibrations as well as other harsh environmental influences act on input devices. This is where the 870 series joysticks show their strengths. The pot shape with the plug in the housing also makes installation easier.

#### Technical Data

Sensor	Hall Effect
Supply Voltage	5 VDC ±0,5 VDC transient free
Output Voltage	0,54,5 V (dual output available)
Independent Linearity Tolerance	±3% full scale
Load Resistance	> 10 kOhm
Insulation Resistance	Over 1000 MOhm at 500 VDC
Dielectric Strength	1 minute at 500 VAC
EMC Durability	100 V/m (80 MHz ~ 1 GHz, 1 kHz sine-wave 80%AM modulation)
ESD Durability	±8 kV contact / ±15 kV air (IEC 61000-4-2)
Expected Life	More than 5 million cycles
IP protection (above panel)*	up to IP65
Mechanical Angle of Movement	±20° (±2,5°) from center
Operating Force	3 - 4,5 N
Operating Temperature	-20°C+60°C
Mass*	approx. 300 g
Shock resistance:	294 m/s²

\*depends on configuration



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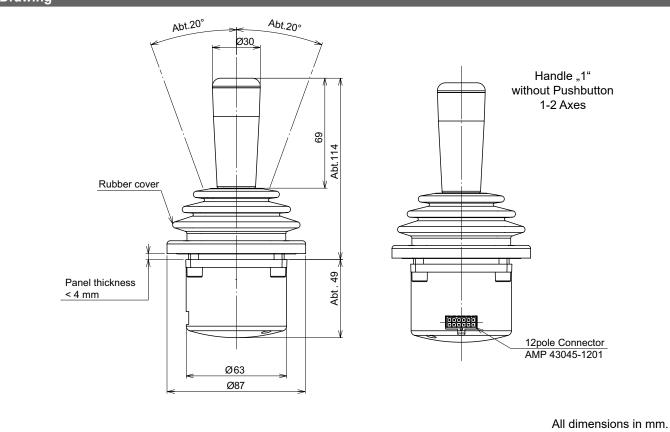
### Hand Joystick

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

Order Code							
Series	870						
Axes / Functions: 2 Axes 2 Axes with pushbutton 2 Axes with rocker switch 3 Axes		2 3 4 6					
Sealing: Rubber boot			5				
Return Mechanism: Spring return				1			
Handles: Stock Grip "1", for 2 axes, no pushbutton, IP65 Stock Grip "2", for 2 axes, 1 pushbutton, IP54* Stock Grip "6", for 2 axes, 1 pushbutton, IP54* Stock Grip "A", for 2 axes, with rocker switch, IP54* Stock Grip "8", for 3 axes, with z-axis, IP54*					1 2 6 A 8		
Limiter: Square						Q	
<b>Output Signal:</b> 0,54,5 V, single output 0,54,5 V, dual output parallel 0,54,5 V, dual output inverse							2 P X

\*Higher IP protection (better sealing) available as custom version. Please contact us.

#### Drawing

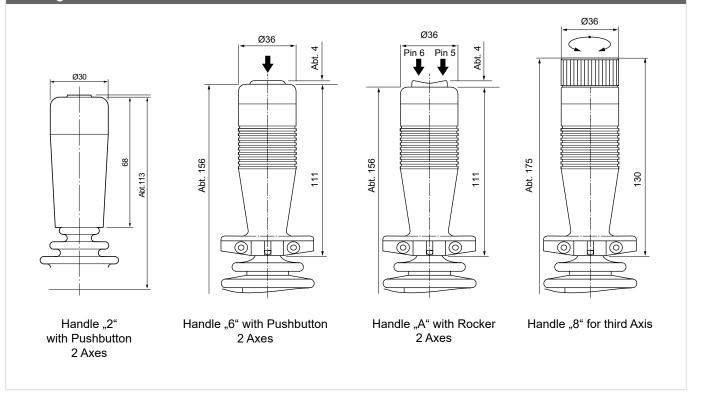


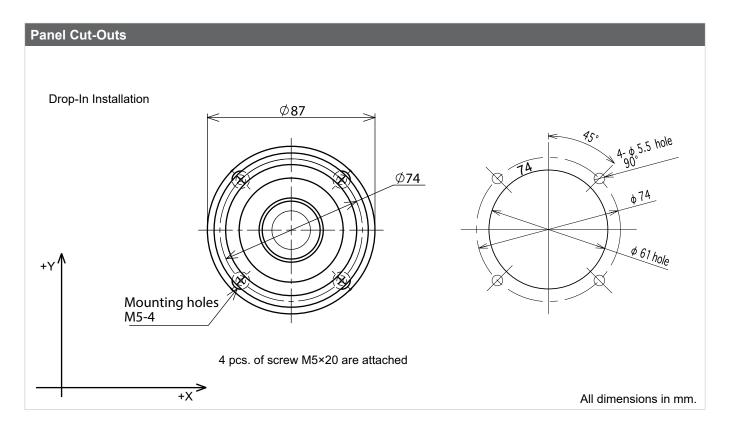
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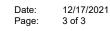
#### Hand Joystick

### Drawing Handles











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