

Hand Joystick Series 870



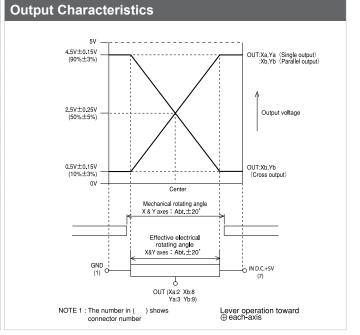
- Medium-sized heavy duty hand joystick of the highest quality with stock grip handle
- Contactless sensor technology (Hall sensors)
- Handles available with button, rocker, or third axis (z rotation)
- Easy to install thanks to the 12-pin connector in the housing

In terms of quality, the 870 series reaches a top level in the field of mechanics and electronics. Especially in demanding applications such as mobile and special machinery, input devices are exposed to vibrations and other harsh environmental conditions. This is where the 870 joysticks really come into their own. The pot shape with the connector in the housing also makes installation easier.

Technical Data	
Sensor	Hall Effect
Supply Voltage	5 VDC ±0.5 VDC transient free
Output Voltage	0.5 V up to 4.5 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 N up to 4.5 N
Operating Temperature	-20 °C up to +60 °C
Mass*	approx. 300 g
Shock resistance:	294 m/s²
*depends on configuration	

*depends on configuration	
Connectors	
Function	Pin
Ground	1
Signal x axis	2
Signal y axis	3
Signal z axis	4
Pushbutton, rocker pos. 1	5
Rocker pos. 2	6
Supply voltage	7
Signal x axis dual output	8
Signal y axis dual output	9
Signal z axis dual output	10
not used	11
СОМ	12
P <u>in 1</u> Pin 6	
Pin 7 Pin 12	
Connection via 12-pin connector (1	Гусо 4-794678-2).

Please contact us for customized connection cables and connectors.



MEGATRON Elektronik GmbH & Co. KG • Hermann-Oberth-Strasse 7 • 85640 Putzbrunn / Munich Tel.: +49 89 46094-0 • www.megatron.de • info@megatron.de

Date: 03/27/2023 Page: 1 of 4



Hand Joystick Series 870

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		
Output Signal: 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.								

Limiters				
	Square	- Option	"Q"	



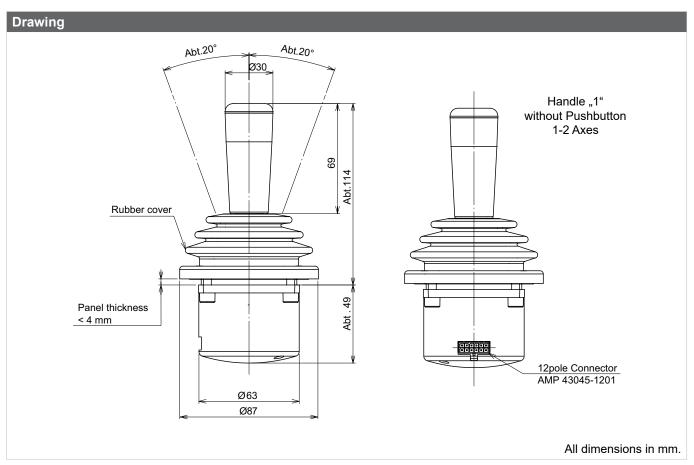
Date:

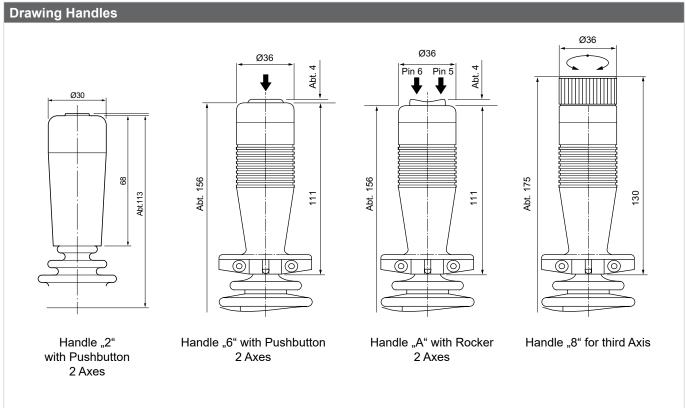
Page:

03/27/2023

3 of 4

Hand Joystick Series 870







Date:

Page:

03/27/2023

4 of 4

Hand Joystick Series 870

