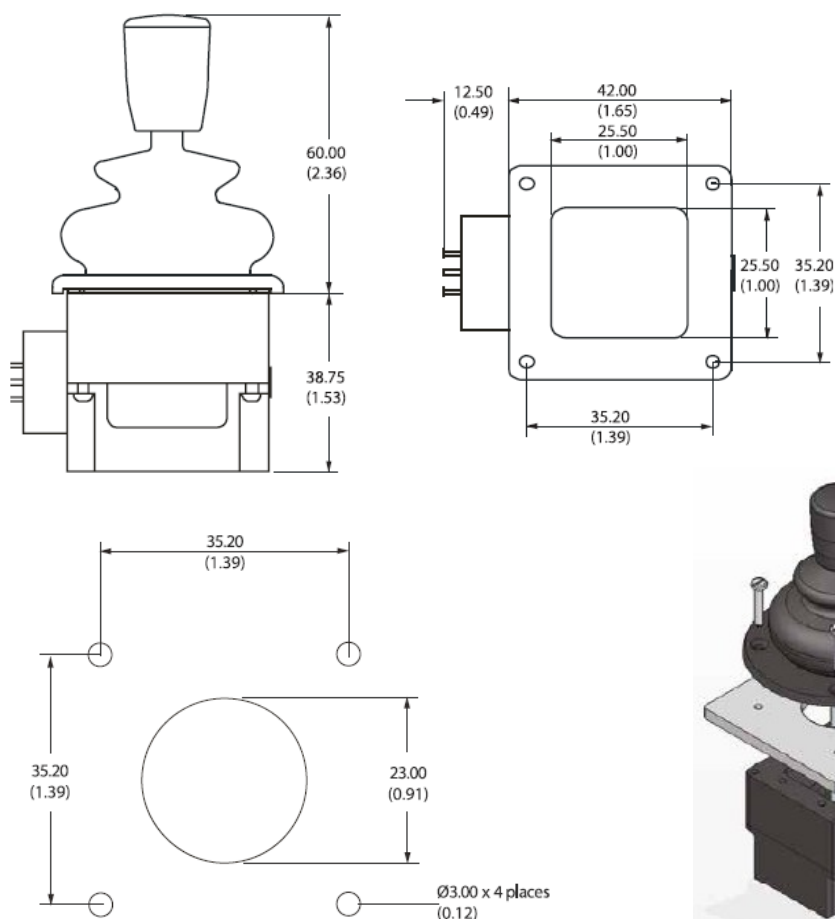


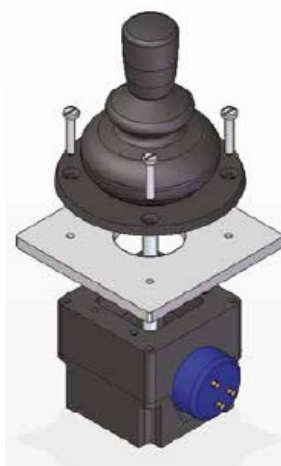
The series 842 finger joysticks are robust joysticks with potentiometric sensors. They are therefore an alternative to Hall-effect joysticks, especially for applications with high EMC requirements. The steel shaft for the pommel and the pommel itself are screwed, which allows flexible configurations of rubber bellows, pommel and shaft length. This is reflected in the large selection of knobs on offer and also offers the opportunity to easily integrate custom-made knobs.

- Very robust potentiometric finger joystick with metal mechanics
- Wide range of knobs
- Degree of protection up to IP65 over the panel
- Inherently robust towards electromagnetic interference
- Custom versions possible with friction brake for one axis, spring return for the second axis,

Standard version with handle C without micro switches



- 1, 2 or 3 axes .
- Spring return
- Wide range of handles
- IP65 above panel



Mounting:

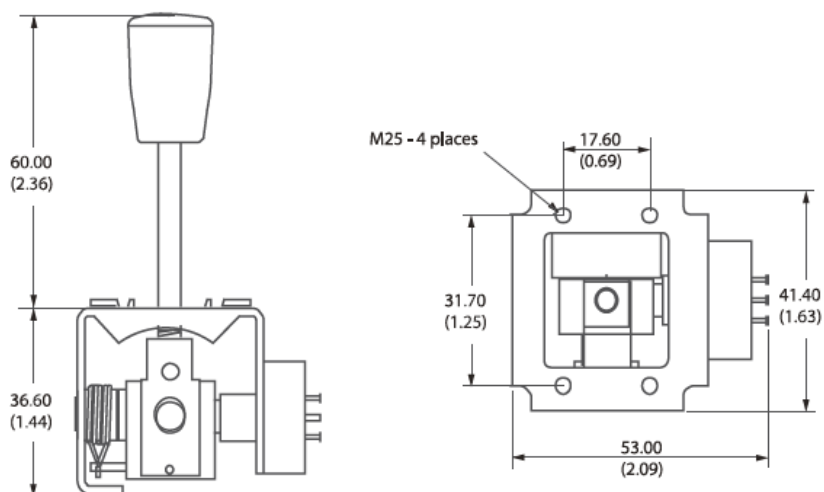
The joystick is mounted from below.

The rubber bellows is guided through the hole in the mounting plate and pressed against the front.

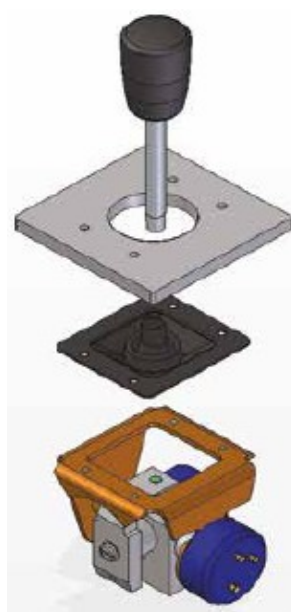
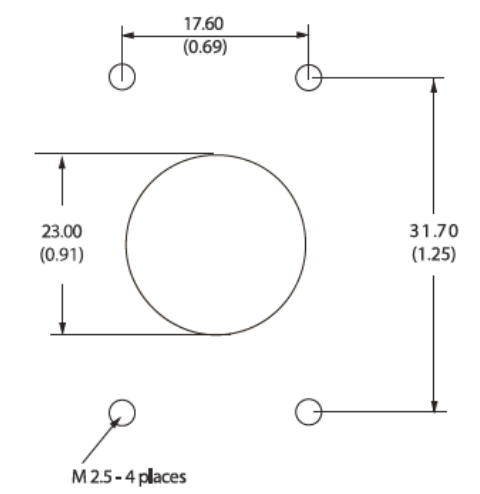
The screw connection is made through the cover.

The rectangular cover has a glossy finish and is designed for 3/8" self-tapping screws.

Open frame version "O" without micro switches



Mounting :



Mounting example with open frame and internal seal (type 7)

The joystick is mounted from below. The frame has M2.5 tapped holes.

If the internal boot is selected, the rubber boot is pressed against the front.
The screw connection is made through the cover.
Then no bezel is needed, since the panel acts as a bezel.

| Technical Data | |
|---|---|
| Sensor technology | Potentiometric |
| Maximum supply voltage | 24 VDC |
| Voltage in Center Position | 50% of maximum output |
| Return to Center Accuracy | ±5% of maximum output |
| Output impedance | 0 à 5 kΩ (Potentiometer Type M) |
| Supply current | < 13 mA (1-2 axes) / < 20 mA (3 axes) |
| Load resistance | min. 100 k Ohm |
| Life Cycles | 5 mio. cycles |
| Deflection x, y axes / z axis | axes X, Y 55° (±27.5° from center) / axe Z 50° (±25° from center) |
| Operating force x-y-direction | 1,3 N (1,0 N et 1,6 N possible on request) |
| Resistance tolerance of potentiometers | ±20%. |
| Operating- /Storage temperature | -20°C à +55°C / -40°C à +70°C |
| Above panel sealing | Up to IP65 (depends on handle configuration) |
| Weight | 110 g (depends on configuration) |
| Insulating resistance | 1000 M Ohm, 500 VDC |
| Power rating at 40°C | 0,15 W |

Mechanical Properties :

The joysticks of the 842 series are unique as potentiometer joysticks in their size class and feature a metal mechanism, which gives a very high-quality feel to the operation.

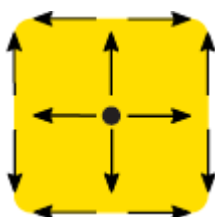
Spring return / friction brake :

The actuation force of the standard spring of the joystick is 1.3 N. Optionally, weaker (1.0 N) and stronger versions (1.6 N) are also available.

On request, we can also implement variants with friction brakes in the X and Y direction.

We are happy to provide you with information on minimum order quantities for these options.

Limiters :



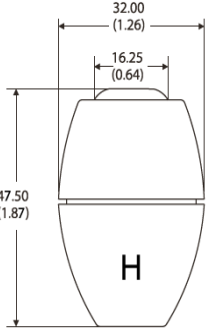



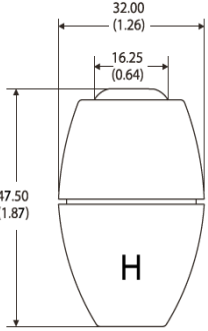
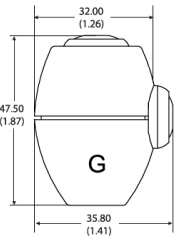
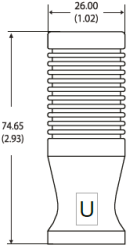
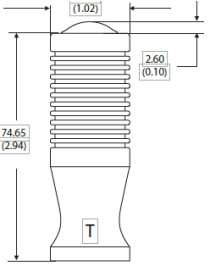
Square - Option 6



Single Axis Y - Option 2

Handles :

| Handles code | C | E | M |
|----------------|-----------------------------|-----------------------------|---------------------------|
| Picture | | | |
| Drawing | | | |
| Material | Nylon | Aluminium | ABS |
| Surface | Sparked matt | Anodised | Sparked matt |
| Standard color | Black | Black | Black |
| Other colors | on request | not available | not available |
| Notes | 1-2 Axes without Pushbutton | 1-2 Axes, 1 Pushbutton | 1-2 Axes, 1 Pushbutton |
| Handles code | A | F | K |
| Picture | | | |
| Drawing | | | |
| Material | Nylon | Nylon | Aluminium |
| Surface | Sparked matt | Mat | Anodised |
| Color | Black | Black | Noir |
| Other colors | not available | not available | not available |
| Notes | 1-2 Axes without Pushbutton | 1-2 Axes without Pushbutton | 3 Axes without Pushbutton |

| Handles code | H | G | U | T |
|--------------|---|---|---|---|
| Picture |  |  |  |  |
| Drawing |  |  |  |  |
| Material | ABS | ABS | Aluminium | Aluminium |
| Surface | Sparked matt | Sparked matt | Anodised | Anodised |
| Color | Black | Black | Black | Black |
| Other colors | not available | not available | not available | not available |
| Notes | 1-2 Axes, 1 Pushbutton | 1-2 Axes, 2 Pushbuttons | 1-2 Axes without Push-button | 1-2 Axes, 1 Pushbutton |

| Wiring | | | |
|--|-----------|--|--|
| | Color | Function | Description |
| Lead wires of x and y axes | Black | ground / 0 V for x and y axis | copper wires with 150 mm length, cross-section 0.12 mm, PVC insulated, outer diameter 1 mm, twisted |
| | Red | +Vcc for x and y axis | |
| | Blue | wiper x axis | |
| | Green | center detect (custom versions, optional)* | |
| | Yellow | wiper y axis | |
| Lead wires for buttons and z axis (3rd axis) | Orange*** | pushbutton | copper wires with 150 mm length, cross-section 0.12 mm, ETFE insulated, outer diameter 0.7 mm, twisted |
| | Green** | wiper z axis | |
| | Red** | +Vcc for z axis | |
| | Blue** | ground / 0 V for z axis | |

* Only available as custom version

** Only for versions with z axis (3rd axis, handle can be rotated)

*** Only for versions with pushbutton

| Order code | |
|---|--|
| Description | Version standard= Black/Arial , possible options = orange/italique |
| Série | 842 |
| Axes : | |
| 1 Axis | 1 |
| 2 Axes | 2 |
| 3 Axes | 3 |
| Sealing: | |
| Rubber boot with square bezel (rear mount) | 5 |
| Rubber boot with circular bezel (rear mount) | 6 |
| Internal rubber boot without bezel (rear mount)* | 7* |
| Return mechanism: | |
| Spring return (Standard) | 1 |
| Spring return with improved spring tension (ca. 125%) | 8 |
| Spring return with reduced spring tension (ca. 75%) | 6 |
| Friction clutch* | 2 |
| Handles: | |
| Handle C for 1-2 Axes, conical, without pushbuttons | C |
| Handle E for 1-2 Axes, with 1 pushbutton | E |
| Handle M for 1-2 Axes, with 1 pushbutton | M |
| Handle A for 1-2 Axes, ball-shaped, no pushbuttons | A |
| Handle F for 1-2 Axes, cylindrical, with rubber protection, no pushbutton | F |
| Handle K for 3 Axes, fluted, no pushbuttons | K |
| Handle U for 1-2 Axes, cylindrical, aluminium, no pushbutton | U |
| Handle T for 1-2 Axes, cylindrical, aluminium, with 1 pb | T |
| Handle H for 1-2 Axes, with 1 pushbutton | H |
| Handle G for 1-2 Axes, with 2 pushbuttons | G |
| Limiters: | |
| Square | 6 |
| Single axis, y direction | 2 |
| Sensor / Output signal: | |
| Potentiometer Type M (5K 55°), for rail to rail output | M |
| Potentiometer Type P (10K 340°) | P |
| Special options: | |
| None | - |
| Open Frame, | O |
| Open Frame with 2 micro switches (directional, for 1 axis version) | O2 |
| Open Frame with 4 micro switches (directional, for 2 axis version) | O4 |

* Only available for open frame version

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

- Customer-specific cables
- Further handle versions
- Customer-specific handles
- Axis configuration can be customized independently for both x and y direction



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