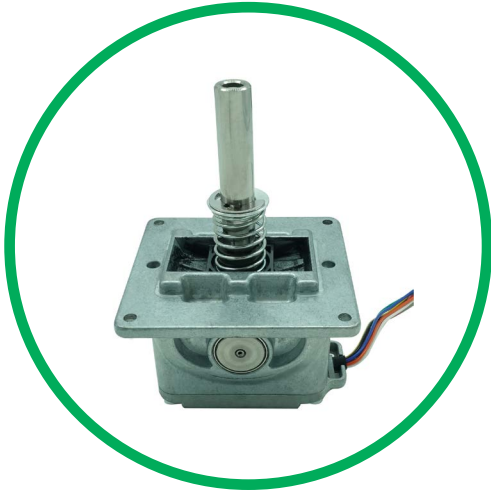


# AJ11

## JOYSTICK

### Introduction

AJ11 is a new generation single axis joystick from Sensata-DeltaTech Controls® that provides the reliability and long life required in demanding environmental conditions such as heavy duty industrial applications. The high mechanical strength of the shaft and housing make the joystick ideal for rigorous use in rugged, harsh environments. 3D Hall-effect sensors provide high accuracy and stable output. Joystick assembly is available for various multifunction grips.



### Features

- Contactless Hall-effect sensing technology
- Life greater than 5 million cycles
- Integrated temperature compensation
- Standard or customized multifunction grips

### Custom Modifications

- Output characteristics
- Operating force
- Lever deflection angle
- Multifunction grips

## SPECIFICATIONS

### Electrical

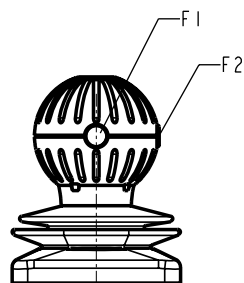
|                         |  |                        |  |
|-------------------------|--|------------------------|--|
| <b>Supply Ratings</b>   | <b>System Voltage</b>                      | 5V±0.1V                |  |
|                         | <b>Supply Current</b>                      | <15mA @5V DC           |  |
|                         | <b>Overvoltage @5V DC</b>                  | +15V, -14V             |  |
| <b>Output Type</b>      | Analog 0.5 ... 4.5V DC, center 2.5 ± 0.15V |                        |  |
| <b>Other Electrical</b> | EMI 100 V/m                                |                        |  |
| <b>EMC</b>              | IEC 61000-4-2                              | ±8KV Contact Discharge |  |
|                         |  | ±15KV Air Discharge    |  |

## Mechanical

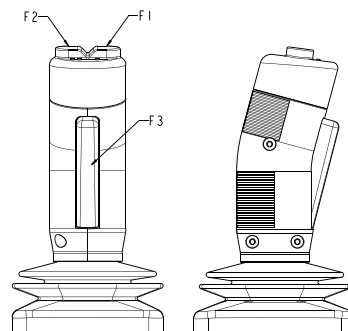
|                                  |                               |
|----------------------------------|-------------------------------|
| <b>Life</b>                      | > 5 million cycles            |
| <b>Operating Temperature</b>     | -20°C to 85°C                 |
| <b>Horizontal Maximum Load</b>   | 110Nm                         |
| <b>Vertical Maximum Load</b>     | 3000N                         |
| <b>Max. Torque (Z-axis)</b>      | 20Nm                          |
| <b>Operating Force</b>           | 18N @80mm                     |
| <b>Protection Level</b>          | IP65                          |
| <b>Y Axis Only</b>               | ±20°                          |
| <b>Linear Accuracy</b>           | <2%FS                         |
| <b>Center Position Tolerance</b> | ±1.5°                         |
| <b>Weight</b>                    | 740g                          |
| <b>Base</b>                      | ZDC1 ( Zinc + Aluminum alloy) |
| <b>Boot</b>                      | EPDM(black)                   |
| <b>Grip</b>                      | PA6                           |
| <b>Cable</b>                     | Customize                     |

## MULTIFUNCTION GRIPS

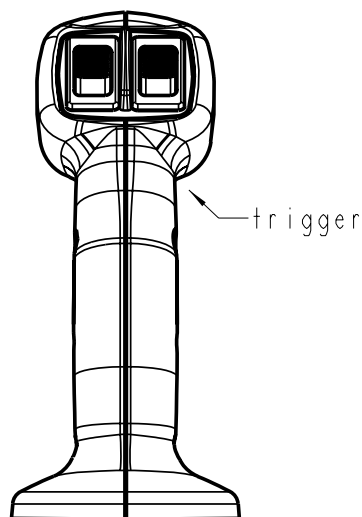
MFG Ball



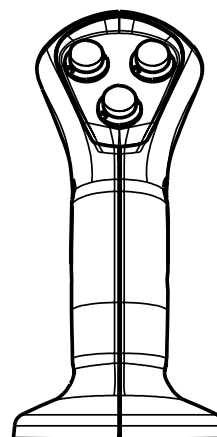
MFG S2



MFG S4



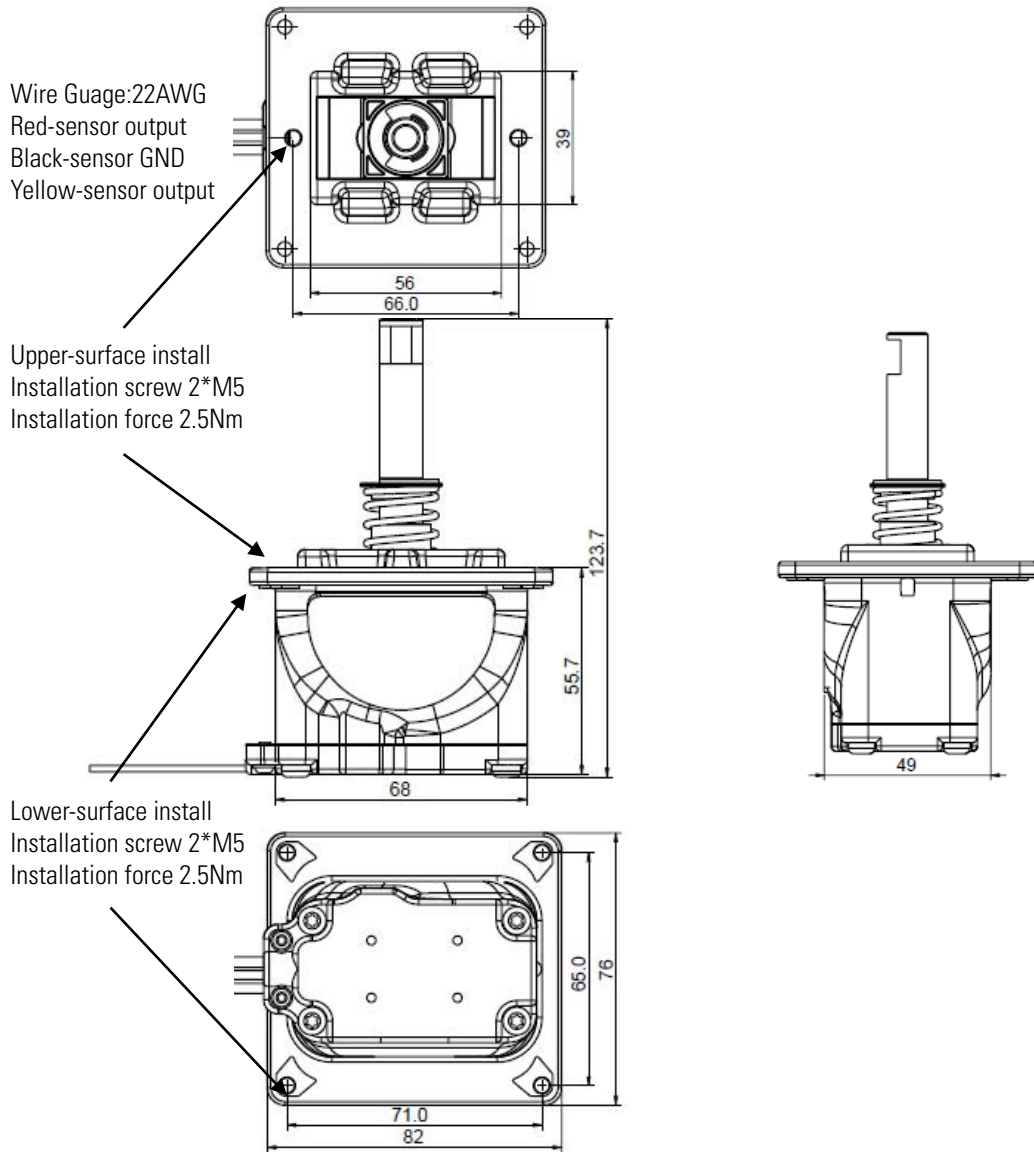
MFG S7

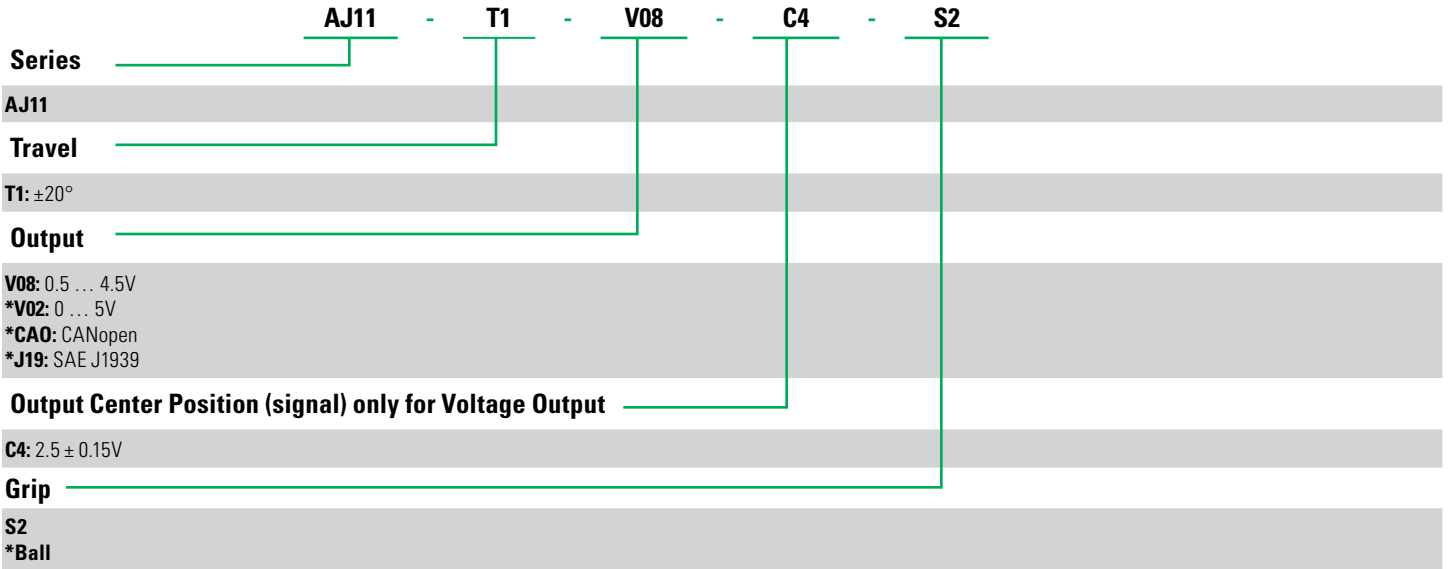




## DIMENSIONS

Dimensions are in millimeters (mm)





\*Consult factory for availability

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