

## SENSATA JOYSTICKS FOR MOBILE INDUSTRIAL EQUIPMENT

### Background

Mobile Elevating Work Platforms (MEWP) are commonly used to move people safely to working positions difficult to reach. This requires Operator Controls to actuate these MEWPs high in the air with high reliability and high resolution. Sensata has multiple joystick models designed to provide the accuracy, safety and durability required for Mobile Elevating Work Platforms.

### Solution

Sensata offers multiple joystick models engineered to deliver the reliability required in demanding environmental conditions, such as heavy-duty industrial applications. The high mechanical strength of the shafts and housings make these joysticks ideal for rigorous use in rugged, harsh environments. 3D Hall-effect sensors provide high accuracy and stable output. The joystick can be paired with Sensata's various multifunction grips to suit the application.

*Single axis joystick, high mechanical strength, high accuracy and stable output, a reliable solution for Mobile Elevating Work Platforms*






These joysticks can be used in all Mobile Elevating Work Platforms for driving, steering and lifting and can be integrated in different control systems. For example, the AJ11 joystick can be integrated in different control systems, such as within the platform control unit, to provide control systems for slab scissor lifts or boom lifts.

Our joysticks are designed to accommodate both standard and custom designed multifunction grips. These grips may contain buttons and rockers for precise tactile feedback, designed for both heavy duty industrial and off-road, rough terrain environments.



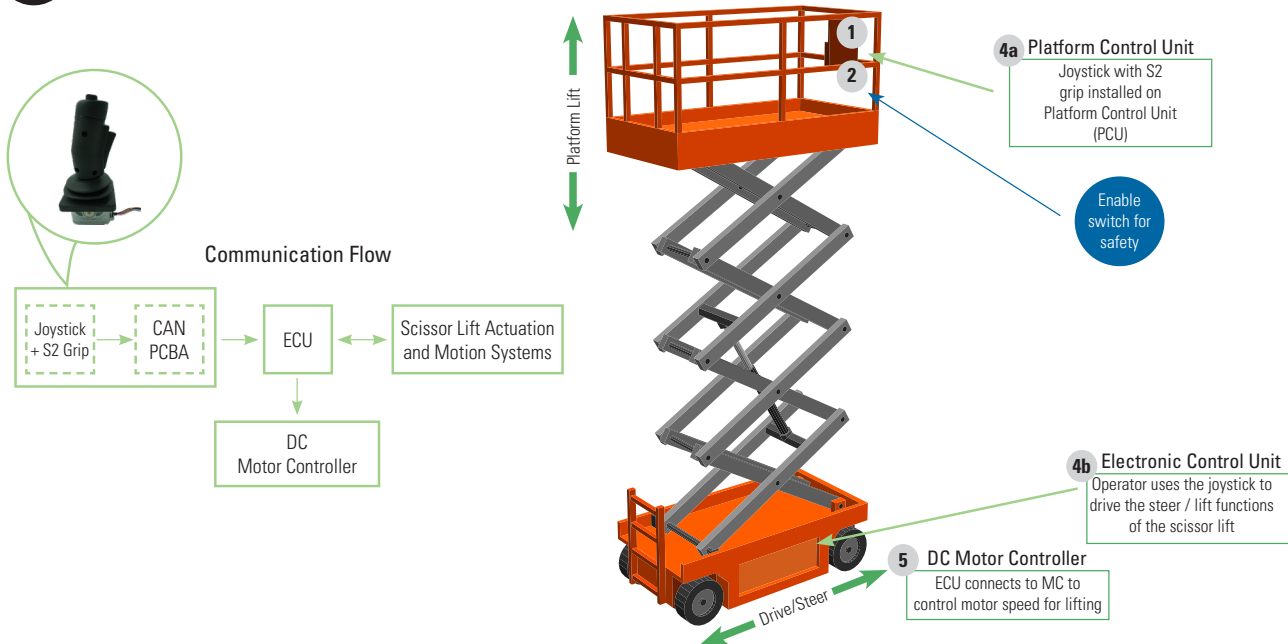


## RECOMMENDED PRODUCTS

Reference on Diagram	Product	Type	Features	Function
1	 AJ3	AJ3 Joystick	<ul style="list-style-type: none"> <li>Analog, CAN and PWM Output</li> <li>Accommodate multifunction grips</li> <li>IP65 Protection</li> </ul>	Operator controls and sensing
2	 AJ22	AJ22 Joystick	<ul style="list-style-type: none"> <li>Analog Output</li> <li>Smaller and lighter</li> <li>IP65 Protection</li> </ul>	Operator controls and sensing
3	 S2	Multifunction Grip	<ul style="list-style-type: none"> <li>Switches Integrated in Grip</li> </ul>	Operator controls and tactile feedback
4	 K610	Platform Control System	<ul style="list-style-type: none"> <li>CoDeSys platform</li> <li>Visual debug &amp; on-line diagnostic with LCD display</li> <li>PWM channels &amp; Isolated CAN</li> <li>Emergency Stop Button</li> <li>Update software via USB ports</li> </ul>	System controls for platform and base of slab scissor lifts
5	 M701	DC Motor Controller	<ul style="list-style-type: none"> <li>MOSFET short-circuit protection</li> <li>Extensive detection function</li> <li>Thermal protection and IP65</li> </ul>	Motor controls for slab scissor lifts



## SCISSOR LIFT ACTUATION & MOTION SYSTEMS



Datasheets provided by Sensata Technologies, Inc., its subsidiaries and/or affiliates ("Sensata") are solely intended to assist third parties ("Buyers") who are developing systems that incorporate Sensata products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, valuation, and judgment in designing Buyer's systems and products. Sensata datasheets have been created using standard laboratory conditions and engineering practices. Sensata has not conducted any testing other than that specifically described in the published documentation for a particular datasheet. Sensata may make corrections, enhancements, improvements, and other changes to its datasheets or components without notice.

Buyers are authorized to use Sensata datasheets with the Sensata component(s) identified in each particular datasheet. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER SENSATA INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN. SENSATA DATASHEETS ARE PROVIDED "AS IS". SENSATA MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE DATASHEETS OR USE OF THE DATASHEETS, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. SENSATA DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO SENSATA DATASHEETS OR USE THEREOF.

All products are sold subject to Sensata's terms and conditions of sale supplied at [www.sensata.com](http://www.sensata.com). SENSATA ASSUMES NO LIABILITY FOR APPLICATIONS ASSISTANCE OR THE DESIGN OF BUYERS' PRODUCTS. BUYER ACKNOWLEDGES AND AGREES THAT IT IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL LEGAL, REGULATORY, AND SAFETY-RELATED REQUIREMENTS CONCERNING ITS PRODUCTS, AND ANY USE OF SENSATA COMPONENTS IN ITS APPLICATIONS, NOTWITHSTANDING ANY APPLICATIONS-RELATED INFORMATION OR SUPPORT THAT MAY BE PROVIDED BY SENSATA.

Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA

## CONTACT US

**Americas**  
+1 (800) 350 2727  
[sensors.deltatech@sensata.com](mailto:sensors.deltatech@sensata.com)

**Europe, Middle East & Africa**  
+359 (2) 809 1826  
[ost-info.eu@sensata.com](mailto:ost-info.eu@sensata.com)

**Asia Pacific**  
[sales.isasia@list.sensata.com](mailto:sales.isasia@list.sensata.com)  
China +86 (21) 2306 1500  
Japan +81 (45) 277 7117  
Korea +82 (31) 601 2004  
India +91 (80) 67920890  
Rest of Asia +886 (2) 27602006  
ext 2808