

SMART FLUID MEDIA MANAGEMENT

Background

As automation is adopted in more facilities, physical work is being replaced by machines and their automatic controls and the need for valve actuators has grown.

In some industries such as food and beverage, valves need to be opened or closed rapidly in the event of emergency circumstances. With some processes requiring high pressures and large line sizes, the amount of power required to open or close a valve can be significant. In these circumstances, the valve actuator needs to be packaged together with key sensors like position sensing equipment, torque sensing, motor protection, and other

smart control options, in order to provide increased working safety and environmental protection.

Solution




Sensata provides a wide range of sensors and switches that monitor the valve system control, providing fluid level indication, temperature regulation, along with overheat protection. Our sensors provide enhanced reliability, minimize down time, and improve robustness in most harsh environments. Position sensors, like the compact 9960 with redundant output or the modular ACW4/TCW4 with CANopen or IO-link option available, deliver continuous position status with enhanced reliability and accuracy. Pressure sensors measure the pressure of the diaphragm to help regulate the flow within the pipeline, and can also measure differential pressure by comparing different values across the the system.

Position sensors indicate any open, closed or intermediary position of the valve, in order to avoid any leaks that could cause dangerous accidents.



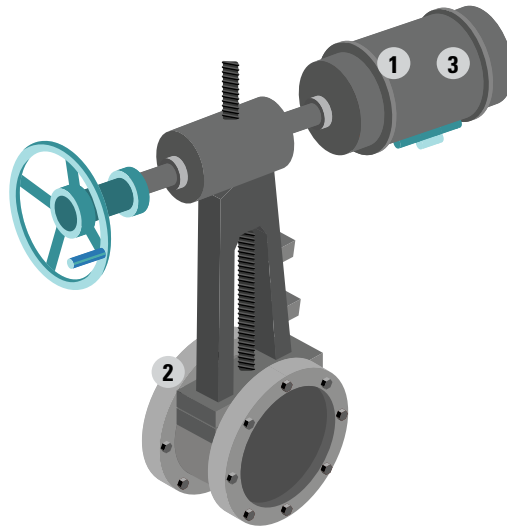


RECOMMENDED PRODUCTS

Reference on Diagram	Product	Features	Function
1	 ACW4/TCW4 Hall Effect Rotary Position Sensor	<ul style="list-style-type: none"> Two-part design, offering maximum flexibility during installation Easy commissioning and configuration with IO-Link, excellent resistance to shock and vibration 	Indicates the open, intermediate or closed position of the valve
2	 7100 Hermetic Analog Pressure Sensor	<ul style="list-style-type: none"> Ideal for machines in the mid and high pressure ranges Wide range of ports, connectors, and analog electrical outputs for ease of integration in various industrial applications 	Hydraulic and pneumatic system control
3	 9960 Hall Effect Rotary Position Sensor	<ul style="list-style-type: none"> Small package and easy integration; versatile due to the 360 degree turn capability Packaged in a highly sealed (IP69K) housing and utilizing non-contacting Hall effect technology 	Angle detection of the valves (Magnet integrated)



FLUID MANAGEMENT APPLICATIONS



Sensata Technologies, Inc. ("Sensata") data sheets are solely intended to assist designers ("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 data sheets 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 data sheet. Sensata may make corrections, enhancements, improvements, and other changes to its data sheets or components without notice.

Buyers are authorized to use Sensata data sheets with the Sensata component(s) identified in each particular data sheet. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OTHERWISE TO ANY OTHER SENSATA INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN. SENSATA DATA SHEETS ARE PROVIDED "AS IS". SENSATA MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE DATA SHEETS OR USE OF THE DATA SHEETS, 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 DATA SHEETS OR USE THEREOF.

All products are sold subject to Sensata's terms and conditions of sale supplied at 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-ELATED 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

Americas

Sensata Technologies Inc.
529 Pleasant Street,
Attleboro, MA 02703 USA
pressure sensors & switches
+1 (800) 350 2727
sensors@sensata.com
switches@sensata.com
Position Sensors and Encoders
+1 (800) 350 2727
sales.beisensors@sensata.com
Cynergy3 Components
+44 (0) 1202 897969
sales@cynergy3.com

Europe, Middle East & Africa

Sensata Technologies Holland b.v.
Jan Tinbergenstraat 80
7559 SP Hengelo
The Netherlands
Pressure Sensors & switches
+359 (2) 809 1826
pressure-info.eu@sensata.com
Position Sensors and Encoders
+33 (3) 88 20 8080
position-info.eu@sensata.com

CONTACT US

Cynergy3 Components
+44 (0) 1202 897969
sales@cynergy3.com

Asia Pacific

Sensata Technologies china co., ltd.
30th Floor, InterContinental Center,
100 Yu Tong Rd, Jing An District, 200070
Shanghai, China
+86 (21) 2306 1500
sales.isasia@list.sensata.com
Japan
+81 (45) 277 7117
sales.isasia@list.sensata.com
Korea
+82 (31) 601 2004
sales.isasia@list.sensata.com
India
+91 (80) 67920890
sales.isasia@list.sensata.com
Rest of Asia
+886 (2) 27602006 ext 2808
sales.isasia@list.sensata.com
Cynergy3 Components
+44 (0) 1202 897969
sales@cynergy3.com