

## SUCO - 0630/0631 PRESSURE SENSOR

CANopen/CAN J1939 Series

063010041B032  
 CANopen, 0..1Bar, G¼, M12



- Type 0630: CANopen protocol according to CiA DS-301, Device profile according to CiA DS-404
- Type 0631: CAN J1939 protocol according to SAE J1939
- 14 Standard pressure ranges from 0..1 bar up to 0..600 bar
- M12 electrical connector

### PRODUCT DESCRIPTION

The SUCO 0630 (CANopen) and 0631 (CAN J1939) are rugged digital pressure transmitters built in a stainless-steel (AISI 304) hex-22 housing, designed for harsh industrial and mobile-hydraulic environments. They cover a wide span of pressure ranges—from vacuum 0–1 bar up to high-pressure 0–600 bar (0–8,700 psi). Each unit features a fully welded 1.4542 stainless-steel measuring cell ensuring excellent media compatibility, with burst pressure ratings up to 1,050 bar (15 230 psi). Electrical compatibility includes supply voltages of 10–32 V DC and rugged M12 connectors. The CANopen 0630 adheres to CiA DS-301/404 standards while the 0631 supports SAE J1939 protocol—all via 1 Mb/s CAN 2.0 A/B interfaces. They deliver high accuracy ( $\pm 0.5\%$  FS,  $\pm 0.25\%$  BFSL), excellent repeatability ( $\pm 0.1\%$ ), fast response ( $< 1$  ms), and long-term drift capped at 0.1 % FS per year—all with a mechanical lifespan rated to 10 million pulses.

These CANbus pressure sensors are ideal for mobile machinery, off-highway vehicles, agriculture, rail, mining, and marine systems, especially where cabling simplicity and reliable networked communication are essential. The digital CAN interface supports not only pressure readings, but also real-time diagnostics, timestamps, and configurable parameters, enabling smart monitoring and predictive maintenance in multi-node control systems. Their durable stainless builds and IP67 protection make them ideal in wet, dusty or corrosive environments, while wide temperature tolerance ( $-40$  to  $+105$  °C ambient,  $-40$  to  $+100$  °C media) ensures stability across variable climates. With high overpressure ratings, weld-sealed sensors, and long service life, the 0630/0631 series are well-suited for high-reliability pressure monitoring and control in demanding mobile or industrial CANbus-enabled systems.

### TECHNICAL DATA

<b>Accuracy</b>	$\pm 0.5\%$ FS
<b>Burst pressure</b>	9 bar
<b>Connection</b>	G1/4-E
<b>Electrical connection</b>	M12x1
<b>IP class</b>	IP67
<b>Long term stability</b>	$< \pm 0.1\%$ of full scale per year
<b>Material of body</b>	Stainless Steel 1.4301
<b>Material of wetted parts</b>	Stainless steel 1.4542
<b>Mechanical life expectancy</b>	10 Million cycles
<b>Overpressure protection</b>	6 Bar

<b>Pressure range max</b>	1 bar
<b>Pressure range min</b>	0 bar
<b>Pressure reference</b>	Gauge
<b>Pressure rise</b>	≤ 1 bar/ms
<b>Repeatability</b>	±0.1% FS
<b>Response time</b>	1 ms
<b>Shock resistance</b>	1000g according to IEC68-2-32
<b>Signal type</b>	CANopen, CAN 2.0 A
<b>Supply voltage dc max</b>	32 V DC
<b>Supply voltage dc min</b>	10 V DC
<b>Temperature ambient from</b>	-40 °C
<b>Temperature ambient to</b>	105 °C
<b>Temperature error</b>	1.5% FS
<b>Temperature of media from</b>	-40 °C
<b>Temperature of media to</b>	100 °C
<b>Weight</b>	90 g
<b>Vibration resistance</b>	20g according to IEC 68-2-6 and IEC 68-2-36