



## SUCO - 0630/0631 PRESSURE SENSOR

CANopen/CAN J1939 Series

063140241B032  
CAN J1939, 0..400Bar, G1/4, 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

Initially developed for automotive purposes CAN is a serial bus protocol which allows components such as sensors to communicate over a single or dual wired network to a vehicles system. This vastly reduces the amount of cable used, wiring time and connections used in standard wiring looms whilst still communicating data at high speeds.

Housed in a robust stainless steel case this sensor meets the high demands of harsh environments whilst still offering excellent accuracy and reliability. Pressure ranges start from 0..1 bar and go all the way up to 0..600 bar covering most application requirements.

Wide range of applications such as agricultural, rail, off-highway and construction vehicles etc.

### TECHNICAL DATA

|                            |                               |
|----------------------------|-------------------------------|
| Accuracy                   | ±0.5% FS                      |
| Burst pressure             | 1000 bar                      |
| Connection                 | G1/4-E                        |
| Electrical connection      | M12x1                         |
| IP class                   | IP67                          |
| Long term stability        | <±0.1% of full scale per year |
| Material of body           | Stainless Steel 1.4301        |
| Material of wetted parts   | Stainless steel 1.4542        |
| Mechanical life expectancy | 10 Million cycles             |
| Overpressure protection    | 750 Bar                       |
| Pressure range max         | 400 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>               | CAN J1939, CAN 2.0 B                        |
| <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 |