

Superior Sensor Technology

vSENSE™ NON-CONTACT SENSOR



AT A GLANCE

- vSENSE™ Hall effect non-contact sensor seals out contaminants and offers accurate position sensing and switching.
- Configurable and flexible, the patent pending vSENSE™ sensor offers mounting options for ease of installation regardless of configuration.
- vSENSE™ provides proprietary technology for EMC shielding.

The Kongsberg Automotive vSENSE™ non-contact, programmable Hall effect sensor provides technologically proven capabilities in a design that completely seals out contaminants to provide enhanced reliability in harsh industrial environments.

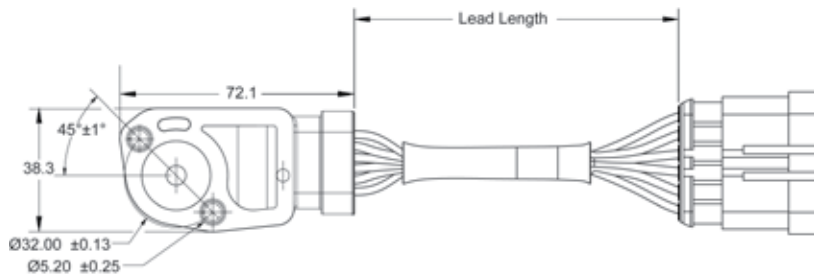
The vSENSE™ non-contact sensor is configurable with both analog output and electronic switches. Its versatility allows adaptation to meet the requirements for position, motion sensing and rotation for a wide range of industrial applications. Mounting options provide ease of installation regardless of configuration. When coupled with a Kongsberg Automotive mechatronic pedal, transmission shifter, or hand control system, the vSENSE™ sensor provides both unsurpassed reliability and easy installation for any application or configuration.

The patent-pending sensor design exceeds the IP67 seal rating by performing under dynamic rather than static conditions.

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PRODUCT SPECIFICATIONS



Shown with custom connector and electrical leads
All dimensions in mm

PARAMETER	SPECIFICATIONS
Temperature Operating Range	-40°C to +85°C
Functional Life (full rotation)	30M Cycles
Supply Current Draw	max.10mA per Output
Max. continuous voltage on switch	+50V
Max. continuous operating switch current	20mA
Output Range (programmable) within:	
Minimum	>7% of supply voltage
Maximum	<90% of supply voltage
Electrical Specifications for Ratiometric Voltage Output	
Supply (Reference) Voltage	5V±0.5V
Environmental Specification	EMC
150V/m	
ESD	±15kV
Seal Compliant	IP67
Chemical Resistance per.	SAE J1455
Configuration	
Programmable for dual/single analog	
Programmable for idle validation switch	

FEATURES:

- Sealed external design:
 - no rotating shaft seal wear
 - no mechanical wear points
- Excellent EMI protection
- Integrated connector
- Fully programmable

OPTIONS:

- Single or dual outputs
 - analog
 - electronic idle validation switch
 - pulse width modulation
- Flying leads with all connector types