



KONGSBERG
AUTOMOTIVE

SMART PEDAL

WITH vSENSE™ TECHNOLOGY



AT A GLANCE

- > A FLOOR MOUNTED ELECTRONIC PEDAL WITH TUNEABLE FORCE DEFLECTION AND FEEDBACK CHARACTERISTICS.
- > CAN BE USED FOR BRAKE-BY-WIRE APPLICATIONS OR SIMILAR CONTROL FUNCTIONS.
- > A SOLENOID VALVE IS USED TO CONTROL THE FLOW OF BRAKE FLUID TO PROVIDE VARIABLE FORCE FEEDBACK.
- > SENSOR OUTPUT CAN BE PROPORTIONAL TO BOTH PEDAL ANGLE AND APPLIED PRESSURE.
- > A CONCENTRIC MOTOR CAN PROVIDE HAPTIC FEEDBACK IN THE TREADLE.
- > vSENSE™ HALL EFFECT NON-CONTACT SENSOR PROVIDES POSITION SENSING AND SWITCHING ACCURACY AND RELIABILITY.

PRODUCT DESCRIPTION

The Kongsberg Automotive Smart pedal has been designed to provide an adaptable pedal force which can be tuned to provide different feedback to the operator depending on the driving situation.

Ideally suited for pedal applications such as brake-by-wire where it can be set up with variable force, vibration or knocking feedback.

It features the vSENSE™ non-contact sensor with patent-pending technology, configurable for a wide range of sensor output types. The Kongsberg Automotive vSENSE™ non-contact, programmable Hall effect sensor seals out contaminants to provide enhanced reliability in all environments. With no moving parts to wear over time, the vSENSE™ sensor sets a new standard for accuracy and durability.

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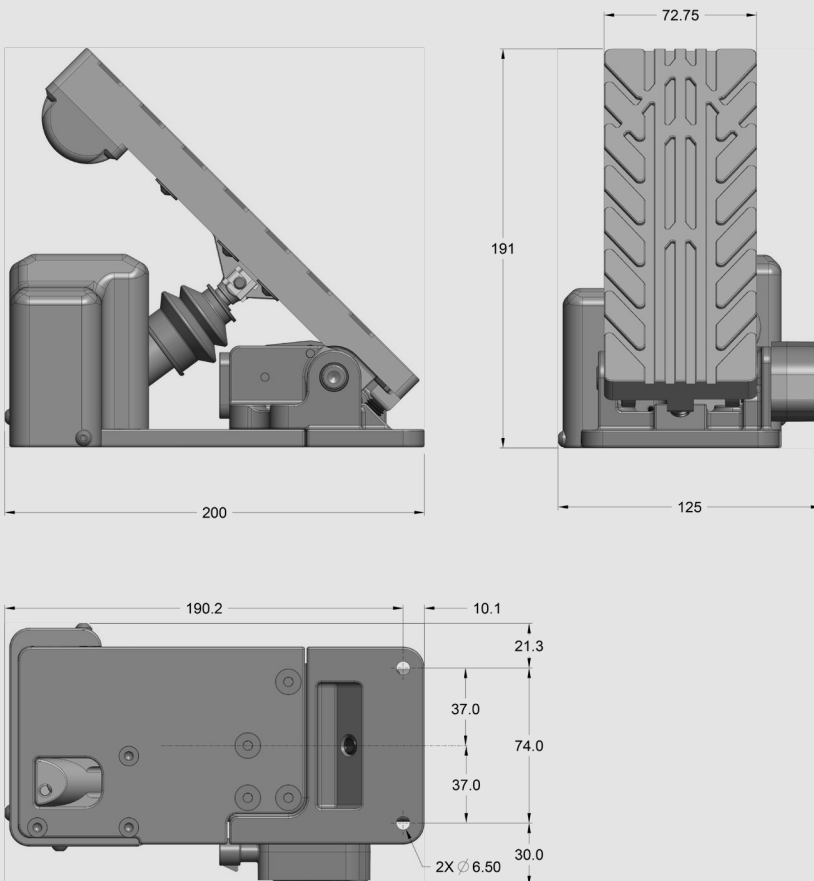
PRODUCT SPECIFICATIONS

PARAMETERS	SPECIFICATIONS
RATED LIFE	3,000,000 CYCLES
LOAD RATING	2200N (495LB)
OPERATING VOLTAGE	CONTROLLER: 12V TO 24VDC
	DUAL ANALOG POSITION SENSOR: 4.5V TO 5.5V
	PWM POSITION SENSOR: 7.5V TO 32V
	CAN POSITION SENSOR: 6.5V TO 36V
OPERATING TEMPERATURE	-40°C TO +85°C
INGRESS PROTECTION	IP67
FORCE CHARACTERISTICS	ADJUSTABLE UP TO 250N MAX

FEATURES

- > 45° STARTING ANGLE
- > 16° PEDAL TRAVEL FROM THE REST POSITION
- > ADJUSTABLE FORCE CHARACTERISTICS
- > ADDITIONAL HAPTIC FEEDBACK FROM CONCENTRIC MOTOR
- > DUAL WRAP TORSION RETURN SPRING FOR ADDED SAFETY
- > EASY MOUNTING
- > INTEGRATED SENSOR WITH METRIPACK 150 CONNECTOR

PRODUCT DIMENSIONS



OPTIONS

- > AVAILABLE IN 35° OR 45° STARTING ANGLES
- > SENSOR OUTPUT CAN BE CONFIGURED FOR DUAL ANALOGUE, PWM OR CANBUS, DEPENDING UPON THE VEHICLE REQUIREMENTS