



**HINDLE
CONTROLS**



**KONGSBERG
AUTOMOTIVE**

HANDS-ON CONTROL

EH-3000 ELECTRONIC HAND ENGINE IDLE SPEED AND POSITION CONTROL



AT A GLANCE

- Patented vSENSE™ non-contact sensor provides position sensing and switching accuracy and reliability
- Innovative modular design allows for installation in a wide range of applications and configurations
- Robust design tested for rugged environments and vehicles
- Adjustable actuating force
- Analog and PWM sensors available
- Standard knob, lever or base versions available

Product Description

The EH-3000 Electronic Hand Engine Idle Speed and Position Control is the latest control to utilize Kongsberg Automotive's leading vSense sensor technology. Designed for the rigors of construction, agricultural and industrial vehicle control, the EH-3000 is intended for use with electronic engines as a hand engine idle speed and position control. Designed to provide ease of installation and mounting, flexibility of input mechanisms, and variability of angular movement, this product is adaptable for a wide range of electronic control applications requiring a robust, durable design. The compact,

fully sealed unit offers extended service life in the harshest environments. With multiple sensor output options, the vSense non-contact sensor may be calibrated to meet the customer's exact requirements.

This device can be used as a stand alone product or it can be used in conjunction with other Kongsberg Automotive products to create a complete control system for virtually any type of heavy duty vehicle.

Contact:

Hindle Controls, Caledonia Street, Bradford, West Yorkshire, BD5 0EL

Tel: 01274 727234

Fax: 01274 738950

Mail: controls@hindle.co.uk

Web: www.controlsandcables.com

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Product Specifications

Sensor Parameter

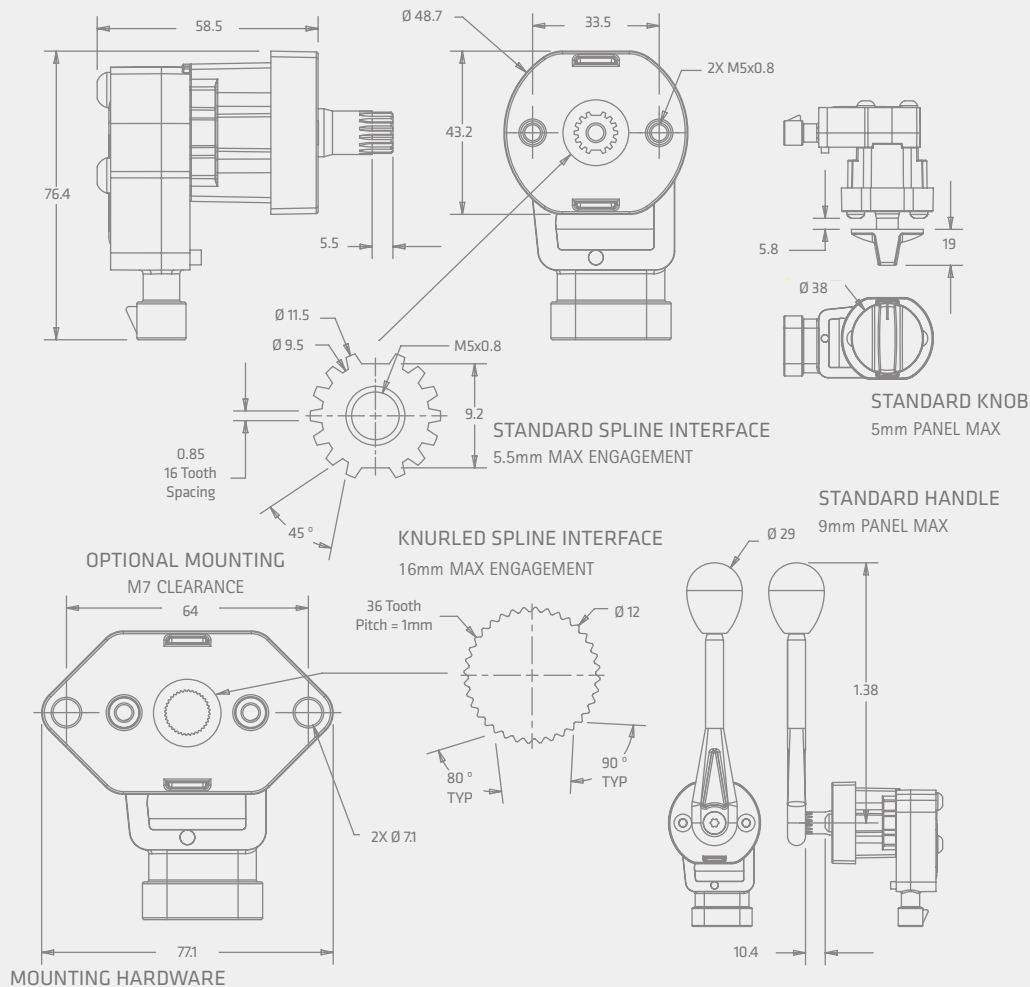
Specifications

Operating Voltage:	Analog 5V+/- 0.5V PWM 7.5V to 32V
Product Life (Full Travel Cycles):	500.000
Output Range (programmable) within:	Minimum > 7% of supply voltage Maximum < 90% of supply voltage
Travel Angle Range:	90° and 54° (standard)
Operating Temperatures:	-40°C to +85°C (-40°F to +185°F)
Storage Temperature:	-54°C to +85°C (-165.2°F to +185°F)
Salt Spray:	96 Hours
Solid Objects and Water Ingress:	Sensor IP67 rated
Connector:	Integrated Metri Pack (standard) Alternative connectors available.
Specification Compliances:	ASTMB633; ASTMB117-97, SAEJ726, SAEJ1843, SAEJ1455, KA PS-462, PS-00522
Engine Compatibility:	• Caterpillar • Cummins • DAF • Daimler • Detroit Diesel • Deutz • Hino • Iveco • MAN • MTU • Navistar • Perkins • Scania • ShanghaiDiesel • John Deere • Kubota • Sisu Diesel • Volvo • Weichai
Engine Input Options:	Single Analog, Dual Analog, Single Analog w/IVS, PWM

Features

- Industry leading and patented vSense™ Hall effect non-contact sensor provides accuracy and reliability
- Analog and PWM sensors available
- Robust, durable design
- Factory set friction mechanism holds position resistant to vibration
- Adjustable actuating force
- Customizable mounting options available
- Various travel angels available
- Available with or without standars knob, or lever.
- Dynamic IP67 sensor
- Optional outputs available
- Industry leading cycle life

Standard Mounting Dimentions



Standard Mounting: M5 x 0.8 x 30 Pan Head screws recommended.

Optional Mounting: M7 x 1 x 30 Pan Head screws with nuts recommended.

Benefits

- Modular Design permits customization to fit packaging and user interface needs
- Can be considered for extreme environmental conditions
- Cycle life provides minimal maintenance costs

Connector options

- Integrated sensor output
- 6-pin Integrated Metripack (std)
- 6-pin Deutsch (Harness)
- 3-pin Weatherpack (Harness)
- 3-pin Round Deutsch (Harness)