ELEN
industrial vehicles sensors

HAND THROTTLES

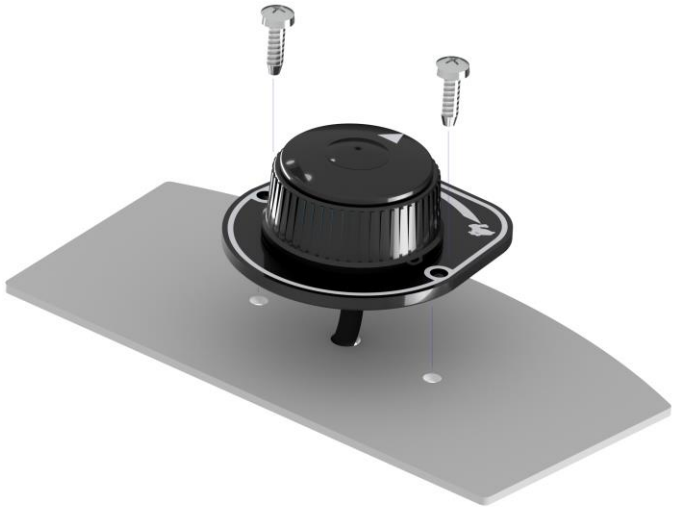
Hall-Effect Hand Throttles – PRAXIS Series

DISTINCTIVE FEATURES

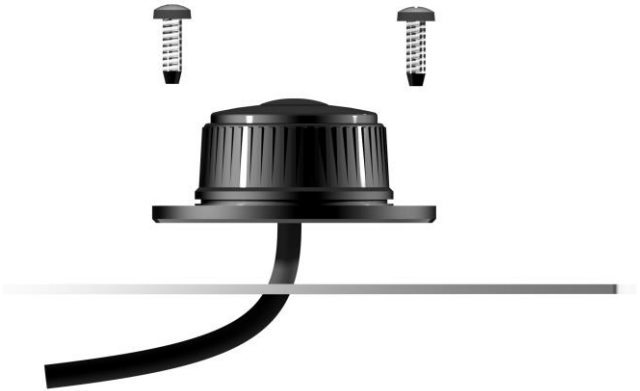
- Integrated compact solution
- Plastic structure
- Standard mechanical variant: Knob
- Endowed with standard serigrafy (turtle and rabbit for decreasing/increasing speed)
- Stroke angle 90° (±45°)
- PLUG AND PLAY solution and easy mounting on the dashboard:
  The product is completely visible; no vertical space under-the-dashboard is required for fixing
- Knob available in black and RAL2004 orange colour (as typical of throttle grip on agricultural vehicles)
- Cable output

Hall-Effect Hand Throttles – PRAXIS Series

INSTALLATION



Easy mounting on the dashboard with two fixing nuts



No vertical space under-the-dashboard
(avoiding interferences with other elements)

Hall-Effect Hand Throttles – THEMIS Series

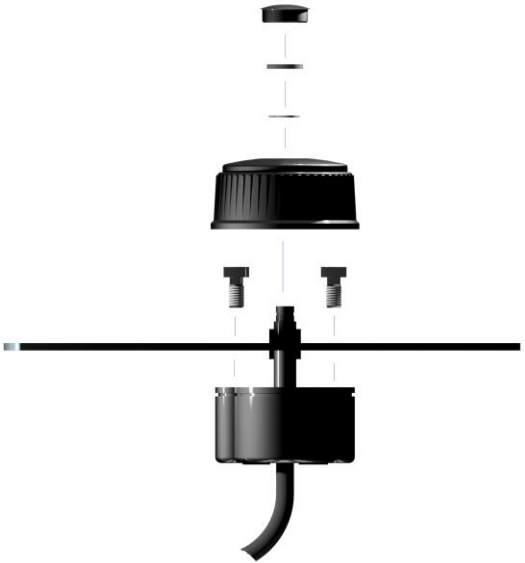
DISTINCTIVE FEATURES

- Integrated compact solution
- Plastic structure
- Standard mechanical variant: Knob
- Space-saving solution: suitable in case of small dashboards
- Sober design with no serigrafy: suitable when it is preferred to create a personal design
- Stroke angle 180°
- Mounting under the dashboard: only the control knob emerges; vertical overall dimentions are needed for installation
- Knob available in black and RAL2004 orange colour (as typical of throttle grip for agricultural applications)
- Customizable hand grip
- Cable output

Hall-Effect Hand Throttles – THEMIS Series

INSTALLATION

Mounting under the dashboard



Vertical space under-the-dashboard is required.
The bottom part including electronics does not emerge.

Hall-Effect Hand Throttles – THEMIS Series

DIFFERENT KNOB POSITIONING CONFIGURATIONS

Double Return

±45°

NEW

Backward and forward (±45°) with 0° central position

Single Return

+180°

It returns to natural position when released

Fixed

It keeps last position when released

Hall-Effect Hand Throttles – Overall features

HALL EFFECT TECHNOLOGY

An hall-effect sensor, integrated in the base plate, detects the field strength of a magnet integral with the knob. It guarantees a reliable signal, immune to premature failures due to mechanical wear.

INTEGRATED ARCHITECTURE

The magnet - integral with the knob - and the electronic board - integral with the base plate - are positioned in the optimal position to reduce overall dimensions and remove moving connecting parts as well as redundant mechanical components.

INDEPENDENT CIRCUITS

Double output versions are obtained by integrating on the same electronic support two sensors with completely independent and galvanically isolated circuits, in compliance with functional safety standards.

PROGRAMMABLE ELECTRONIC BOARD

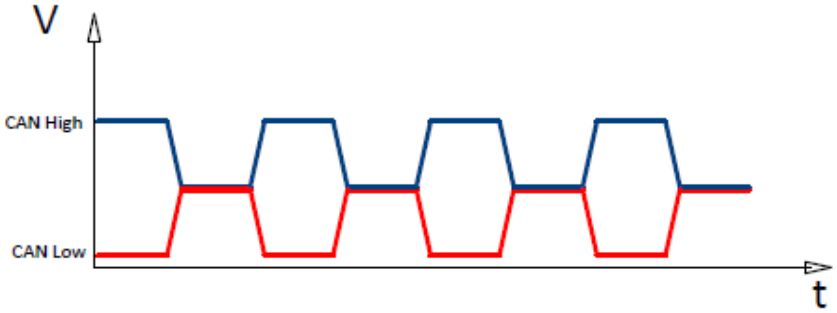
The programmable electronic board allows to set up the output signal values and the trigger threshold for the switch signal without hardware interventions and manual calibrations. It guarantees the highest level of reliability, precision and versatility.

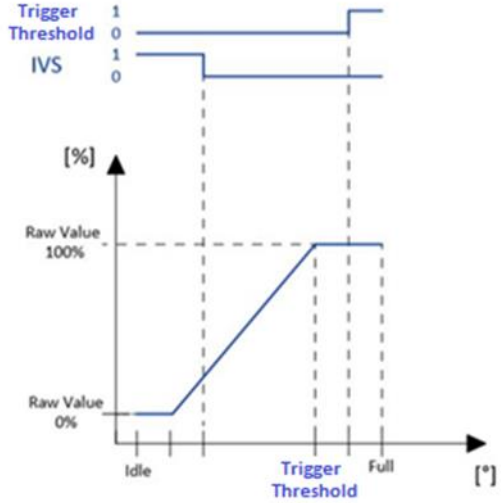
Hall-Effect Hand Throttles – CAN J1939 Output

CAN J1939

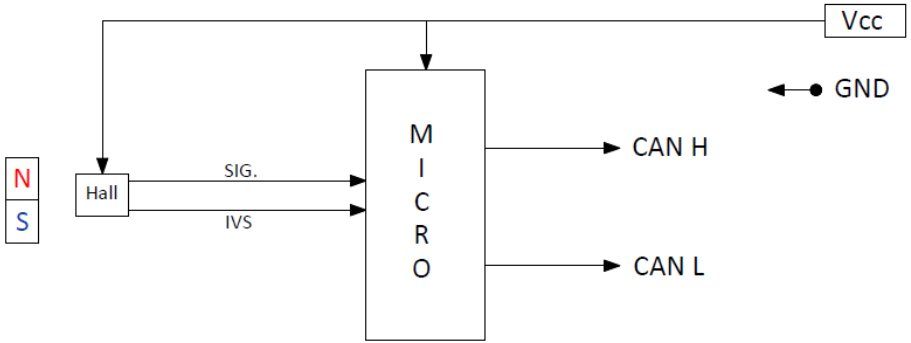
NEW

Output Signal





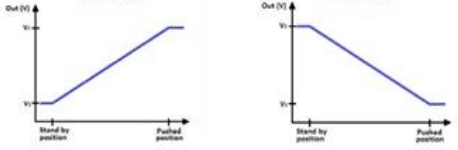
Functional Scheme



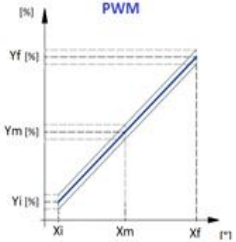
Hall-Effect Hand Throttles – Other output configurations

SINGLE SIGNAL

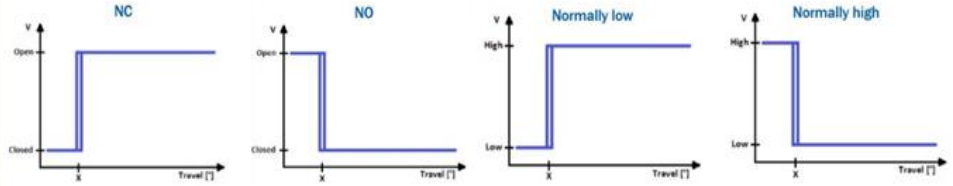
Analogic



PWM

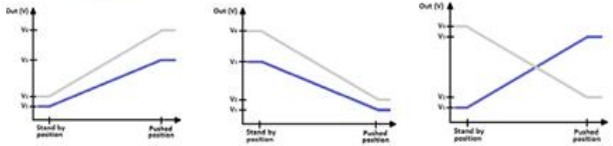


IVS (Idle Validation Switch)

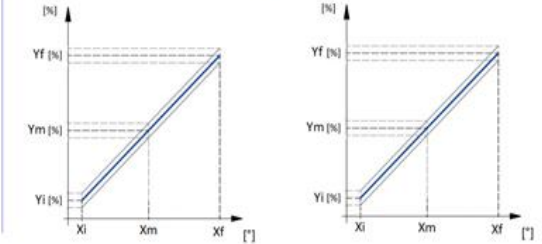


DOUBLE SIGNAL

Analogic



PWM



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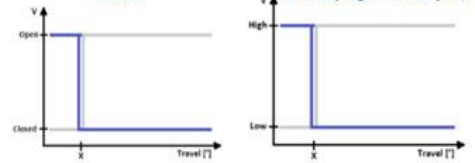

General features of ELEN products

1. ELEN S.r.l. designs and manufactures hall-effect electronic sensors and input devices **specifically intended for agricultural machinery sector**.

2. Besides a standard products offer, it provides with the most specific and **innovative solutions** for any application, giving particular focus on the most recent R&D developments and promptly meeting the new market needs.

3. The company know-how, the market analysis, the **strong and direct customer relationship** allow to introduce cutting edge solutions in accordance with **sector's standards and regulations**, offering a products portfolio that distinguishes ELEN from its competitors.