## Hall Sensor Product Selector Guide

<table>
<thead>
<tr>
<th>Part Type</th>
<th>Magnetic Range</th>
<th>Type</th>
<th>Electrical Characteristics</th>
<th>Package</th>
<th>Application Range</th>
<th>Rotary Position</th>
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<tbody>
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<td>B min [mT]</td>
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<td>B max [mT]</td>
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<td>±100</td>
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<td>±160</td>
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<td>33</td>
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<td>±100</td>
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</tbody>
</table>

### Robust Multi Purpose Linear Hall effect Sensor

- **HAL 8xy**
  - HAL 830
  - HAL 830:
    - ±30 [mT]
    - ±100 [mT]
    - 2
    - 1.2
  - HAL 835
    - ±15 [mT]
    - ±150 [mT]
    - 2
    - 1.2

### Linear Hall Effect Sensor - Programmable or with Fixed Sensitivity

- **HAL 18xy**
  - HAL 1820
    - ±20 [mT]
    - ±160 [mT]
    - 2
    - 1
  - HAL 1821
    - -50 [mT]
    - 50 [mT]
    - 0
    - 1
  - HAL 1822
    - -80 [mT]
    - 80 [mT]
    - 0
    - 1
  - HAL 1823
    - -100 [mT]
    - 100 [mT]
    - 0
    - 1

### Precise and Robust Programmable | Linear Hall Effect Sensor | Single and Dual Die Suitable for Current Sensing Applications

- **HAL 24xy**
  - HAL 2420
    - ±25 [mT]
    - ±200 [mT]
    - 2
    - 1.2
  - HAL 2425
    - ±25 [mT]
    - ±200 [mT]
    - 16
    - 1.2
  - HAR 2425S
    - ±25 [mT]
    - ±200 [mT]
    - 16
    - 1.2
  - HAL 2455
    - ±25 [mT]
    - ±200 [mT]
    - 16
    - 1.2
  - HAR 2455S
    - ±25 [mT]
    - ±200 [mT]
    - 16
    - 1.2

### Programmable Hall Effect Sensor Family for Rotational or Linear Position Detection Based on 3D HAL Technology

- **HAL 37xy**
  - HAL 3715
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2
  - HAL 3725
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2
  - HAL 3726
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2
  - HAL 3727
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2
  - HAL 3735
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2
  - HAL 3736
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2
  - HAL 3737
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2

### Robust Dual-Die Programmable 2D Position Sensor Family with Arbitrary Output Function Based on 3D HAL Technology

- **HAR 37xy**
  - HAR 3715
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2
  - HAR 3725
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2
  - HAR 3726
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2
  - HAR 3727
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2
  - HAR 3735
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2
  - HAR 3736
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2
  - HAR 3737
    - ±20 [mT]
    - ±100 [mT]
    - 33
    - 1.2

○ = Programmable PWM frequency
Overview

Our HALL-SENSOR-IN-A-BOX-KIT includes sensors, magnets, and all the programming tools to build a sensor application quickly and easily. It utilizes two of Symmetry’s best selling products: Micronas Hall Sensors and Dexter Magnets.

The HALL-SENSOR-IN-A-BOX-KIT saves time, money, and the hassle of navigating various websites and suppliers for individual parts.

Applications

The new HAL 37xy and HAL 24xy sensor families are optimal for applications such as:

- Linear movement measurements (EGR, clutch, transmission position)
- Rotary position measurements (gear selector, motor air management)
- Non-contact potentiometer

More info

Register for a Micronas Service Portal account to get the latest drivers and programming software for your Micronas Hall Sensors at:

Service.micronas.com

Buy online

SemiconductorStore.com/Micronas