

HALL SENSOR PRODUCT SELECTOR GUIDE

Part Type		Magnetic Range		Type			Electrical Characteristics		Package				Application Range					Rotary Position					
	Programmable	B min [mT]	B max [mT]	Setpoints	Analog	PWM	SENT	VDD [V] 4.5 to 5.5	Iout (max) - [mA]	TO92	SOT89	SOIC8	TSSOP14	Linear Movement	Current Measurement	Rotary Position	Leveling	Force / Pressure	Torque Measurement	0° to 90°	0° to 180°	0° to 360°	
Robust Multi Purpose Linear Hall effect Sensor																							
HAL 8xy	HAL 830	•	±30	±100	2	•		•	1.2	•				•	•	•	•	•	•	•	•	•	
	HAC 830 ⁴	•	±30	±100	2	•		•	1.2	•				•	•	•	•	•	•	•	•	•	
	HAL 835	•	±15	±150	2	•	○		•	1.2	•			•	•	•	•	•	•	•	•	•	
Linear Hall Effect Sensor - Programmable or with Fixed Sensitivity																							
HAL 18xy	HAL 1820	•	±20	±160	2	•		•	1	•	•			•	•	•	•			•			
	HAL 1821		-50	50	0	•		•	1	•	•			•	•	•	•			•			
	HAL 1822		-80	80	0	•		•	1	•	•			•	•	•	•			•			
	HAL 1823		-100	100	0	•		•	1	•	•			•	•	•	•			•			
Precise and Robust Programmable Linear Hall Effect Sensor Single and Dual Die Suitable for Current Sensing Applications																							
HAL 24xy	HAL 2420	•	±25	±200	2	•		•	1.2	•		•		•	•	•	•	•	•	•	•	•	
	HAL 2425	•	±25	±200	16	•		•	1.2	•		•		•	•	•	•	•	•	•	•	•	
	HAR 2425 ⁵	•	±25	±200	16	•		•	1.2	•		•	•	•	•	•	•	•	•	•	•	•	
	HAL 2455	•	±25	±200	16		•		1.2	•		•		•	•	•	•	•	•	•	•	•	
	HAR 2455 ⁵	•	±25	±200	16		•		1.2	•		•	•	•	•	•	•	•	•	•	•	•	
Programmable Hall Effect Sensor Family for Rotational or Linear Position Detetction Based on 3D HAL Technology																							
HAL 37xy	HAL 3715	•	±20	±100	33	•		•	1.2	•		•			•	•				•	•	•	
	HAL 3725	•	±20	±100	33	•		•	1.2	•		•			•	•				•	•	•	
	HAL 3726	•	±20	±100	33	•		•	1.2	•		•		•	•					•	•	•	
	HAL 3727	•	±20	±100	33	•		•	1.2	•		•		•	•					•	•	•	
	HAL 3735	•	±20	±100	33	•	○	•	•	1.2	•		•		•	•					•	•	•
	HAL 3736	•	±20	±100	33	•	○	•	•	1.2	•		•		•	•					•	•	•
	HAL 3737	•	±20	±100	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	±100	33	•		•	1.2			•			•	•				•	•	•	
	HAR 3725	•	±20	±100	33	•		•	1.2			•			•	•				•	•	•	
	HAR 3726	•	±20	±100	33	•		•	1.2			•		•	•					•	•	•	
	HAR 3727	•	±20	±100	33	•		•	1.2			•		•	•					•	•	•	
	HAR 3735	•	±20	±100	33	•	○	•	•	1.2			•		•	•					•	•	•
	HAR 3736	•	±20	±100	33	•	○	•	•	1.2			•		•	•					•	•	•
	HAR 3737	•	±20	±100	33	•	○	•	•	1.2			•		•	•					•	•	•

○ = Programmable PWM frequency

HALL-SENSOR-IN-A BOX-KIT



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



Kit Components

Micronas Extension Board v4.0



Micronas HAL USB Kit



Micronas Hall Sensors



Axial / Diametric Disc Magnets



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