

Hallogic Hall-effect Sensors

OH090U, OH180U, OH360U

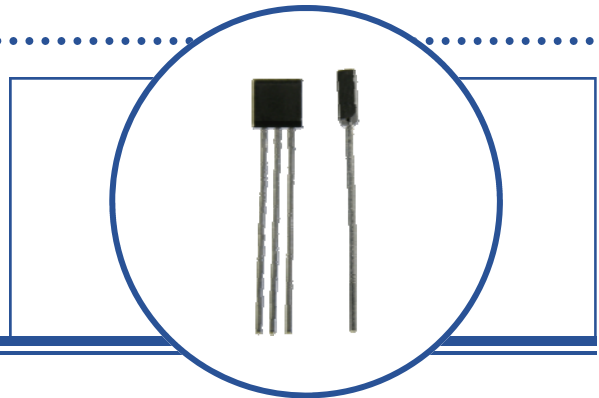
OHN3000 Series, OHS3000 Series

OHN3100 Series, OHS3100 Series



Features:

- Designed for non-contact switching operations
- Operates over broad range of supply voltages (4.5 V to 24 V)
- Operates with excellent temperature stability in harsh environments
- Drive capability up to 7 TTL loads



Description:

These Hall-effect devices contain a monolithic integrated circuit which incorporates a Hall element, a linear amplifier, a threshold amplifier, and Schmitt trigger on a single Hallogic® silicon chip. Included on-chip is a band gap voltage regulator to allow operation with a wide range of supply voltages. These devices feature logic level output and provide up to 21 mA of sink current. This allows direct driving of more than 7 TTL loads or any standard logic family using power supplies ranging from 4.5 to 24 volts. Output amplitude is constant at switching frequencies from DC to over 200 kHz.

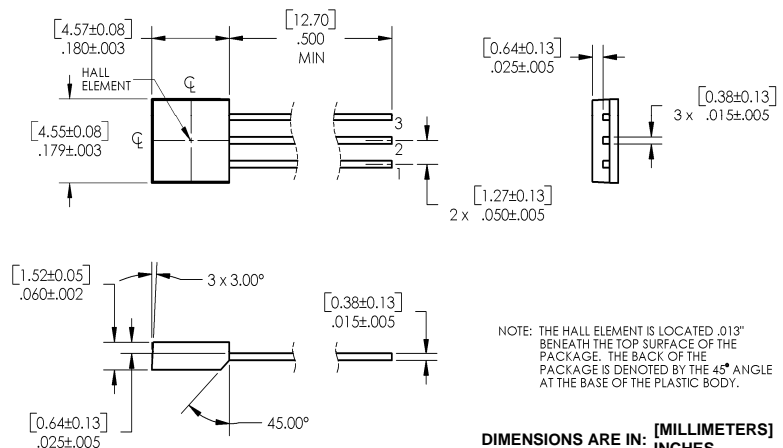
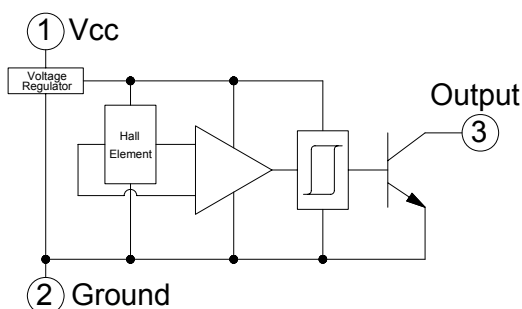
The Uni-Polar turns on with a (logic level "0") after a sufficient magnetic field from the south pole of a magnet approached the symbolized face of the device (Operating Point) and turns off (logic level "1") after the magnetic field reached a minimum value. The Bi-Polar latch device turns on (logic level "0") in the presence of a magnetic south pole and turn off (logic level "1") when subjected to a magnetic north pole. Both magnetic poles are necessary for operation for Bi-Polar devices. This feature makes these sensors ideal for applications in non-contact switching operations, brushless DC motors and for use with multiple pole magnets.

Applications:

- Non-contact reflective object sensor
- Assembly line automation
- Machine automation
- Machine safety
- End of travel sensor
- Door sensor

| Ordering Information | |
|--|-----------------------|
| OH090U, OH180U, OH360U OH3013U, OH3113U OHN3019U, OHS3019U, OHN3119U, OHS3119U OHN3020U, OHS3020U, OHN3120U, OHS3120U OHN3030U, OHS3030U, OHN3130U, OHS3130U OHN3131U, OHS3131U OHN3040U, OHS3040U, OHN3140U, OHS3140U | Unipolar non-latching |
| OH3075U, OHS3075U, OHN3175U, OHS3175U OHN3177U, OHS3177U | Bi-Polar latching |

| Pin # | Transistor |
|-------|-----------------|
| 1 | V _{CC} |
| 2 | Ground |
| 3 | Output |



RoHS

OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.

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Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

| | | |
|--|--|--|
| Supply Voltage, V_{CC} | | 25 V |
| Storage Temperature Range, T_S | | -65°C to +160°C |
| Operating Temperature Range, T_A | OHN30__U OHS30__U OH090/180/360U | -20°C to +85°C -40°C to +125°C -40°C to +150°C |
| Lead Soldering Temperature (1/8 in. (3.2 mm) from case for 5 sec. with soldering iron) | | 260°C ⁽¹⁾ |
| Output ON Current, I_{SINK} | | 25 mA |
| Output OFF Voltage, V_{OUT} | | 25 V |
| Magnetic Flux Density, B | | Unlimited |

Electrical Characteristics ($V_{CC} = 4.5\text{ V to }24\text{ V}$, $T_A = 25^\circ\text{ C}$ unless otherwise noted)

OH090U Uni-Polar

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
|----------|---------------------------------------|------|------|------|---------------|---|
| B_{OP} | Magnetic Operate Point ⁽¹⁾ | 0 | 90 | 180 | Gauss | |
| B_{RP} | Magnetic Release Point | -100 | 65 | 100 | Gauss | |
| B_H | Magnetic Hysteresis | 10 | 25 | 100 | Gauss | |
| I_{CC} | Supply Current | - | 6 | 9 | mA | $V_{CC} = 24\text{ V}$, Output Off |
| V_{OL} | Output Saturation Voltage | - | 100 | 300 | mV | $V_{CC} = 4.5\text{ V}$, $I_{OL} = 20\text{ mA}$, $B \geq 180\text{ Gauss}$ |
| I_{OH} | Output Leakage Current | - | 0.5 | 10.0 | μA | $V_{CC} = 24\text{ V}$, $V_{OUT} = 24\text{ V}$, $B \leq -100\text{ Gauss}$ |
| t_r | Output Rise Time | - | 0.21 | 1.00 | μs | $R_L = 820\ \Omega$, $C_L = 20\text{ pF}$, $V_{CC} = 14\text{ V}$ |
| t_f | Output Fall Time | - | 0.10 | 1.00 | μs | |

OH180U Uni-Polar

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
|----------|---------------------------------------|-----|------|------|---------------|---|
| B_{OP} | Magnetic Operate Point ⁽¹⁾ | 70 | 180 | 290 | Gauss | |
| B_{RP} | Magnetic Release Point | 0 | 140 | 230 | Gauss | |
| B_H | Magnetic Hysteresis | 20 | 40 | 120 | Gauss | |
| I_{CC} | Supply Current | - | 6 | 9 | mA | $V_{CC} = 24\text{ V}$, Output Off |
| V_{OL} | Output Saturation Voltage | - | 100 | 300 | mV | $V_{CC} = 4.5\text{ V}$, $I_{OL} = 20\text{ mA}$, $B \geq 290\text{ Gauss}$ |
| I_{OH} | Output Leakage Current | - | 0.5 | 10.0 | μA | $V_{CC} = 24\text{ V}$, $V_{OUT} = 24\text{ V}$, $B \leq 0\text{ Gauss}$ |
| t_r | Output Rise Time | - | 0.21 | 1.00 | μs | $R_L = 820\ \Omega$, $C_L = 20\text{ pF}$, $V_{CC} = 14\text{ V}$ |
| t_f | Output Fall Time | - | 0.10 | 1.00 | μs | |

Notes:

(1) South pole facing symbolized surface.

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Hallogic Hall-effect Sensors

OH090U, OH180U, OH360U

OHN3000 Series, OHS3000 Series

OHN3100 Series, OHS3100 Series



Electrical Characteristics (V_{CC} = 4.5 V to 24 V, T_A = 25° C unless otherwise noted)

OH360U Uni-Polar

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
|-----------------|---------------------------------------|-----|------|------|-------|--|
| B _{OP} | Magnetic Operate Point ⁽¹⁾ | 235 | 300 | 465 | Gauss | |
| B _{RP} | Magnetic Release Point | 120 | 235 | 325 | Gauss | |
| B _H | Magnetic Hysteresis | 30 | 65 | 200 | Gauss | |
| I _{CC} | Supply Current | - | 6 | 9 | mA | V _{CC} = 24 V, Output Off |
| V _{OL} | Output Saturation Voltage | - | 100 | 300 | mV | V _{CC} = 4.5 V, I _{OL} = 20 mA, B ≥ 465 Gauss |
| I _{OH} | Output Leakage Current | - | 0.1 | 10.0 | μA | V _{CC} = 24 V, V _{OUT} = 24 V, B ≤ 120 Gauss |
| t _r | Output Rise Time | - | 0.21 | 1.00 | μs | R _L = 820 Ω, C _L = 20 pF, V _{CC} = 14 V |
| t _f | Output Fall Time | - | 0.10 | 1.00 | μs | |

OHN3013U, OHN3113U Uni-Polar

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS | |
|-----------------|---------------------------------------|---------|------|------|-------|--|------------------------|
| B _{OP} | Magnetic Operate Point ⁽¹⁾ | OHN3013 | - | 300 | 450 | Gauss | +25°C -20°C TO 85°C |
| | | OHN3113 | - | - | 510 | | |
| B _{RP} | Magnetic Release Point | OHN3013 | 30 | 235 | - | Gauss | +25°C -20°C TO 85°C |
| | | OHN3113 | 20 | - | - | | |
| B _H | Magnetic Hysteresis | OHN3013 | 20 | 65 | - | Gauss | +25°C -20°C TO 85°C |
| | | OHN3113 | 10 | - | - | | |
| I _{CC} | Supply Current | - | 4 | 7 | mA | V _{CC} = 24 V, Output Off, B ≤ 25 Gauss | |
| V _{OL} | Output Saturation Voltage | - | 100 | 400 | mV | V _{CC} = 4.5 V, I _{OL} = 20 mA, B ≥ 450 Gauss | |
| I _{OH} | Output Leakage Current | - | 0.1 | 10.0 | μA | V _{CC} = 24 V, V _{OUT} = 24 V, B ≤ 25 Gauss | |
| t _r | Output Rise Time | - | 0.21 | 1.00 | μs | R _L = 820 Ω, C _L = 20 pF, V _{CC} = 12 V | |
| t _f | Output Fall Time | - | 0.10 | 1.00 | μs | | |

Notes:

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Hallogic Hall-effect Sensors

OH090U, OH180U, OH360U

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OHN3100 Series, OHS3100 Series



Electrical Characteristics (V_{CC} = 4.5 V to 24 V, T_A = 25° C unless otherwise noted)

OHN3019U, OHS3019U, OHN3119U, OHS3119U Uni-Polar

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
|-----------------|---------------------------------------|---------|------|------|-------|--|
| B _{OP} | Magnetic Operate Point ⁽¹⁾ | OH_3019 | 175 | 300 | 500 | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3119 | 100 | - | 545 | |
| | | OHS3119 | 45 | - | 575 | |
| B _{RP} | Magnetic Release Point | OH_3019 | 125 | 235 | 450 | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3119 | 50 | - | 495 | |
| | | OHS3119 | 25 | - | 555 | |
| B _H | Magnetic Hysteresis | OH_3019 | 50 | 65 | - | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3119 | 50 | - | - | |
| | | OHS3119 | 20 | - | - | |
| I _{CC} | Supply Current | - | 4 | 7 | mA | V _{CC} = 24 V, Output Off, B ≤ 125 Gauss |
| V _{OL} | Output Saturation Voltage | - | 100 | 400 | mV | V _{CC} = 4.5 V, I _{OL} = 20 mA, B ≥ 500 Gauss |
| I _{OH} | Output Leakage Current | - | 0.1 | 10.0 | μA | V _{CC} = 24 V, V _{OUT} = 24 V, B ≤ 100 Gauss |
| t _r | Output Rise Time | - | 0.21 | 1.00 | μs | R _L = 820 Ω, C _L = 20 pF, V _{CC} = 12 V |
| t _f | Output Fall Time | - | 0.10 | 1.00 | μs | |

OHN3020U, OHS3020U, OHN3120U, OHS3120U Uni-Polar

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
|-----------------|---------------------------------------|---------|------|------|-------|--|
| B _{OP} | Magnetic Operate Point ⁽¹⁾ | OH_3020 | 70 | 230 | 350 | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3120 | 70 | - | 425 | |
| | | OHS3120 | 35 | - | 450 | |
| B _{RP} | Magnetic Release Point | OH_3020 | 50 | 180 | 330 | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3120 | 50 | - | 405 | |
| | | OHS3120 | 25 | - | 430 | |
| B _H | Magnetic Hysteresis | OH_3020 | 20 | 50 | - | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3120 | 20 | - | - | |
| | | OHS3120 | 20 | - | - | |
| I _{CC} | Supply Current | - | 4 | 7 | mA | V _{CC} = 24 V, Output Off, B ≤ 50 Gauss |
| V _{OL} | Output Saturation Voltage | - | 100 | 400 | mV | V _{CC} = 4.5 V, I _{OL} = 20 mA, B ≥ 350 Gauss |
| I _{OH} | Output Leakage Current | - | 0.1 | 10.0 | μA | V _{CC} = 24 V, V _{OUT} = 24 V, B ≤ 50 Gauss |
| t _r | Output Rise Time | - | 0.21 | 1.00 | μs | R _L = 820 Ω, C _L = 20 pF, V _{CC} = 12 V |
| t _f | Output Fall Time | - | 0.10 | 1.00 | μs | |

Notes:

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Hallogic Hall-effect Sensors

OH090U, OH180U, OH360U

OHN3000 Series, OHS3000 Series

OHN3100 Series, OHS3100 Series



Electrical Characteristics (V_{CC} = 4.5 V to 24 V, T_A = 25° C unless otherwise noted)

OHN3030U, OHS3030U, OHN3130U & OHS3130U Uni-Polar

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
|-----------------|---------------------------------------|---------|------|------|-------|--|
| B _{OP} | Magnetic Operate Point ⁽¹⁾ | OH_3030 | - | 205 | 250 | Gauss +25°C +25°C -20°C to +85°C -40°C to +125°C |
| | | OH_3130 | - | - | 150 | |
| | | OHN3130 | - | - | 175 | |
| | | OHS3130 | - | - | 200 | |
| B _{RP} | Magnetic Release Point | OH_3030 | 0 | 160 | - | Gauss +25°C +25°C -20°C to +85°C -40°C to +125°C |
| | | OH_3130 | -150 | - | - | |
| | | OHN3130 | -175 | - | - | |
| | | OHS3130 | -200 | - | - | |
| B _H | Magnetic Hysteresis | OH_3030 | 20 | 45 | - | Gauss +25°C +25°C -20°C to +85°C -40°C to +125°C |
| | | OH_3130 | 20 | - | - | |
| | | OHN3130 | 20 | - | - | |
| | | OHS3130 | 20 | - | - | |
| I _{CC} | Supply Current | - | 4 | 7 | mA | V _{CC} = 24 V, Output Off, B ≤ 0 Gauss |
| V _{OL} | Output Saturation Voltage | - | 100 | 400 | mV | V _{CC} = 4.5 V, I _{OL} = 20 mA, B ≥ 200 Gauss |
| I _{OH} | Output Leakage Current | - | 0.1 | 10.0 | μA | V _{CC} = 24 V, V _{OUT} = 24 V, B ≤ 50 Gauss |
| t _r | Output Rise Time | - | 0.21 | 1.00 | μs | R _L = 820 Ω, C _L = 20 pF, V _{CC} = 12 V |
| t _f | Output Fall Time | - | 0.10 | 1.00 | μs | |

OHN3131U & OHS3131U Uni-Polar

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
|-----------------|---------------------------------------|---------|------|------|-------|--|
| B _{OP} | Magnetic Operate Point ⁽¹⁾ | OH_3131 | -75 | - | 95 | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3131 | -75 | - | 95 | |
| | | OHS3131 | -75 | - | 135 | |
| B _{RP} | Magnetic Release Point | OH_3031 | -95 | - | 85 | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3131 | -59 | - | 85 | |
| | | OHS3131 | -135 | - | 125 | |
| B _H | Magnetic Hysteresis | OH_3031 | 10 | - | - | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3131 | 10 | - | - | |
| | | OHS3131 | 10 | - | - | |
| I _{CC} | Supply Current | - | 4 | 7 | mA | V _{CC} = 24 V, Output Off, B ≤ 0 Gauss |
| V _{OL} | Output Saturation Voltage | - | 100 | 400 | mV | V _{CC} = 4.5 V, I _{OL} = 20 mA, B ≥ 200 Gauss |
| I _{OH} | Output Leakage Current | - | 0.1 | 10.0 | μA | V _{CC} = 24 V, V _{OUT} = 24 V, B ≤ 50 Gauss |
| t _r | Output Rise Time | - | 0.21 | 1.00 | μs | R _L = 820 Ω, C _L = 20 pF, V _{CC} = 12 V |
| t _f | Output Fall Time | - | 0.10 | 1.00 | μs | |

Notes:

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Hallogic Hall-effect Sensors

OH090U, OH180U, OH360U

OHN3000 Series, OHS3000 Series

OHN3100 Series, OHS3100 Series



Electrical Characteristics (V_{CC} = 4.5 V to 24 V, T_A = 25° C unless otherwise noted)

OHN3040U, OHS3040U, OHN3140U, OHS3140U Uni-Polar

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
|-----------------|---------------------------------------|---------|------|------|-------|--|
| B _{OP} | Magnetic Operate Point ⁽¹⁾ | OH_3040 | 70 | 150 | 220 | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3140 | 45 | - | 260 | |
| | | OHS3140 | 45 | - | 270 | |
| B _{RP} | Magnetic Release Point | OH_3040 | 50 | 115 | 180 | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3140 | 25 | - | 240 | |
| | | OHS3140 | 25 | - | 250 | |
| B _H | Magnetic Hysteresis | OH_3040 | 20 | 35 | - | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3140 | 20 | - | - | |
| | | OHS3140 | 20 | - | - | |
| I _{CC} | Supply Current | - | 4 | 7 | mA | V _{CC} = 24 V, Output Off, B ≤ -50 Gauss |
| V _{OL} | Output Saturation Voltage | - | 100 | 400 | mV | V _{CC} = 4.5 V, I _{OL} = 20 mA, B ≥ 200 Gauss |
| I _{OH} | Output Leakage Current | - | 0.1 | 10.0 | μA | V _{CC} = 24 V, V _{OUT} = 24 V, B ≤ -50 Gauss |
| t _r | Output Rise Time | - | 0.21 | 1.00 | μs | R _L = 820 Ω, C _L = 20 pF, V _{CC} = 12 V |
| t _f | Output Fall Time | - | 0.10 | 1.00 | μs | |

OHN3075U, OHS3075U, OHN3175U, OHS3175U Bi-Polar Latch

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
|-----------------|---------------------------------------|---------|------|------|-------|--|
| B _{OP} | Magnetic Operate Point ⁽¹⁾ | OH_3075 | 50 | 100 | 250 | Gauss +25°C +25°C -20°C to +85°C -40°C to +125°C |
| | | OH_3175 | 25 | - | 170 | |
| | | OHN3175 | 15 | - | 180 | |
| | | OHS3175 | 10 | - | 260 | |
| B _{RP} | Magnetic Release Point | OH_3075 | -250 | -100 | -50 | Gauss +25°C +25°C -20°C to +85°C -40°C to +125°C |
| | | OH_3175 | -170 | - | -25 | |
| | | OHN3175 | -180 | - | -15 | |
| | | OHS3175 | -260 | - | -10 | |
| B _H | Magnetic Hysteresis | OH_3075 | 100 | 200 | 500 | Gauss +25°C +25°C -20°C to +85°C -40°C to +125°C |
| | | OH_3175 | 100 | - | - | |
| | | OHN3175 | 80 | - | - | |
| | | OHS3175 | 50 | - | - | |
| I _{CC} | Supply Current | - | 4 | 7 | mA | V _{CC} = 24 V, Output Off, B ≤ -250 Gauss |
| V _{OL} | Output Saturation Voltage | - | 100 | 400 | mV | V _{CC} = 4.5 V, I _{OL} = 20 mA, B ≥ 250 Gauss |
| I _{OH} | Output Leakage Current | - | 0.1 | 10.0 | μA | V _{CC} = 24 V, V _{OUT} = 24 V, B ≤ -250 Gauss |
| t _r | Output Rise Time | - | 0.21 | 1.00 | μs | R _L = 820 Ω, C _L = 20 pF, V _{CC} = 12 V |
| t _f | Output Fall Time | - | 0.10 | 1.00 | μs | |

Notes:

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OHN3100 Series, OHS3100 Series



Electrical Characteristics (V_{CC} = 4.5 V to 24 V, T_A = 25° C unless otherwise noted)

OHN3177U, OHS3177U Bi-Polar Latch

| SYMBOL | PARAMETER | MIN | TYP | MAX | UNITS | TEST CONDITIONS |
|-----------------|---------------------------------------|---------|------|------|-------|--|
| B _{OP} | Magnetic Operate Point ⁽¹⁾ | OH_3177 | 50 | - | 150 | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3177 | 25 | - | 150 | |
| | | OHS3177 | 25 | - | 200 | |
| B _{RP} | Magnetic Release Point | OH_3177 | -150 | - | -50 | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3177 | -150 | - | -25 | |
| | | OHS3177 | -200 | - | -25 | |
| B _H | Magnetic Hysteresis | OH_3177 | 100 | - | - | Gauss +25°C -20°C to +85°C -40°C to +125°C |
| | | OHN3177 | 50 | - | - | |
| | | OHS3177 | 50 | - | - | |
| I _{CC} | Supply Current | - | 4 | 7 | mA | V _{CC} = 24 V, Output Off, B ≤ -250 Gauss |
| V _{OL} | Output Saturation Voltage | - | 100 | 400 | mV | V _{CC} = 4.5 V, I _{OL} = 20 mA, B ≥ 250 Gauss |
| I _{OH} | Output Leakage Current | - | 0.1 | 10.0 | μA | V _{CC} = 24 V, V _{OUT} = 24 V, B ≤ -250 Gauss |
| t _r | Output Rise Time | - | 0.21 | 1.00 | μs | R _L = 820 Ω, C _L = 20 pF, V _{CC} = 12 V |
| t _f | Output Fall Time | - | 0.10 | 1.00 | μs | |

Notes:

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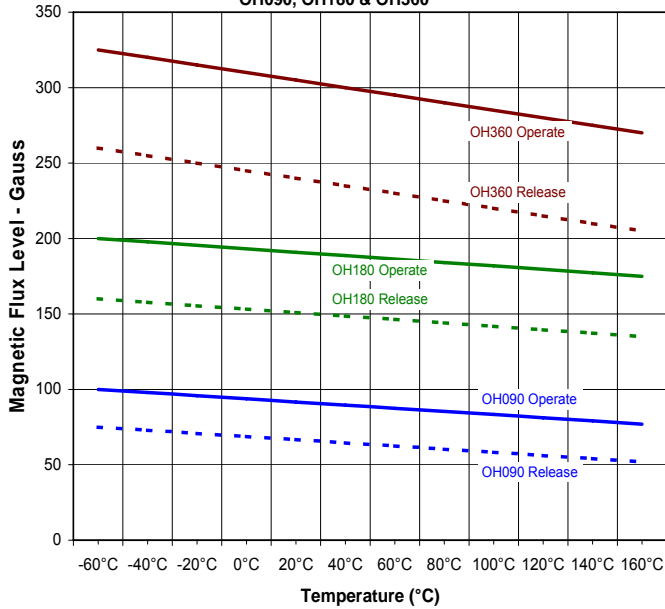
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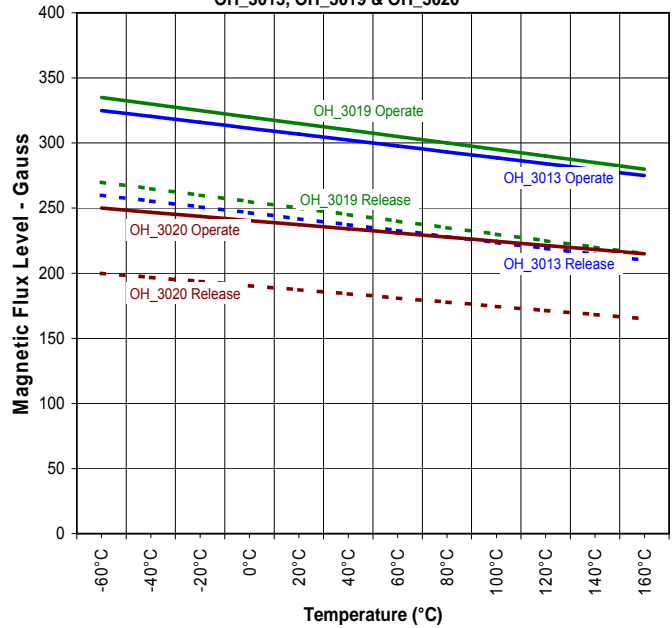


Typical Operate & Release Points

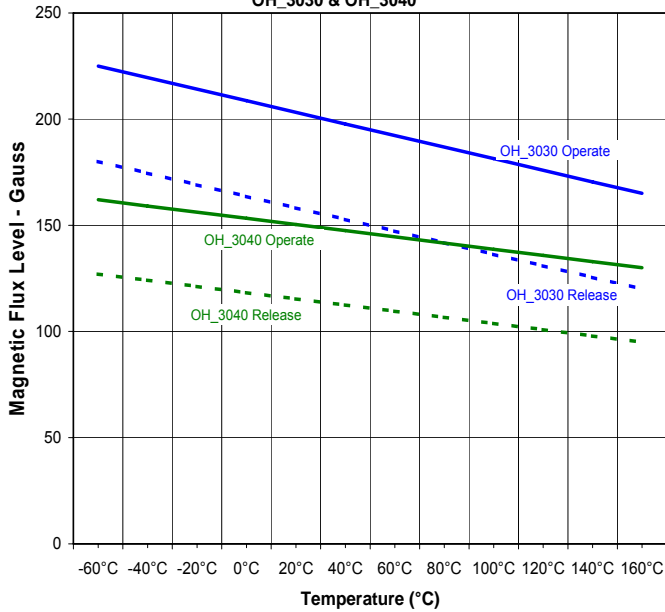
Magnetic Operate & Release Points vs Temperature
 OH090, OH180 & OH360



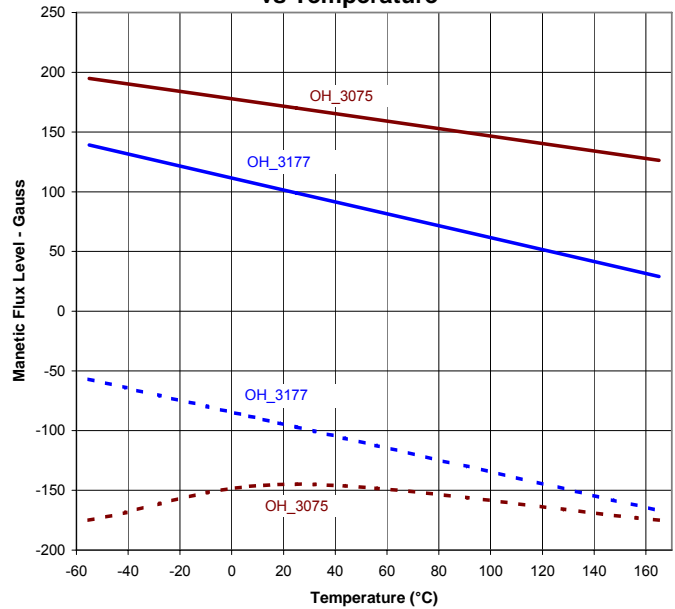
Magnetic Operate & Release Points vs Temperature
 OH_3013, OH_3019 & OH_3020



Magnetic Operate & Release Points vs Temperature
 OH_3030 & OH_3040



Magnetic Operate & Release Points vs Temperature



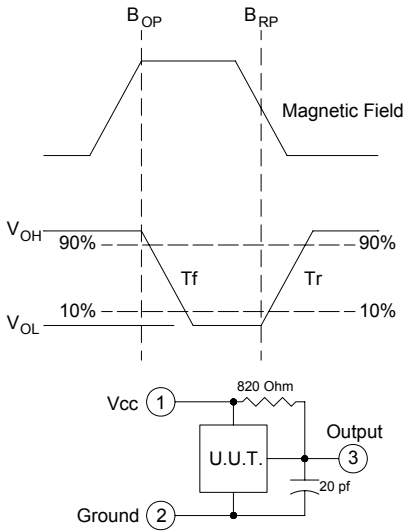
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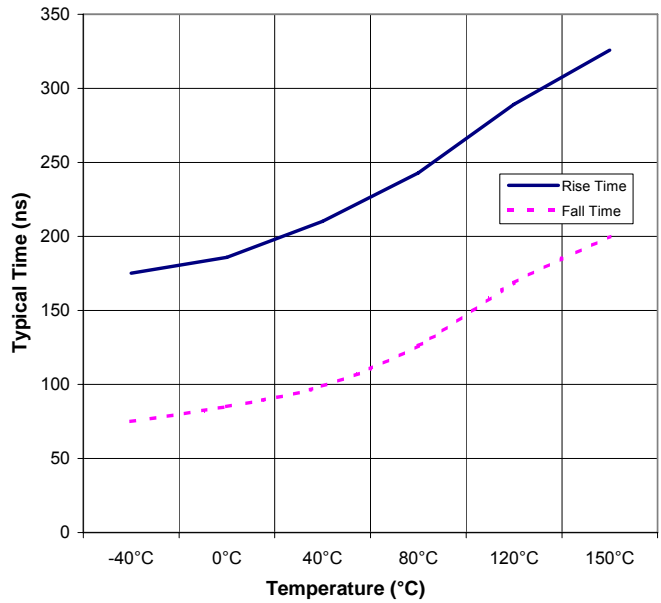
OH090U, OH180U, OH360U

OHN3000 Series, OHS3000 Series

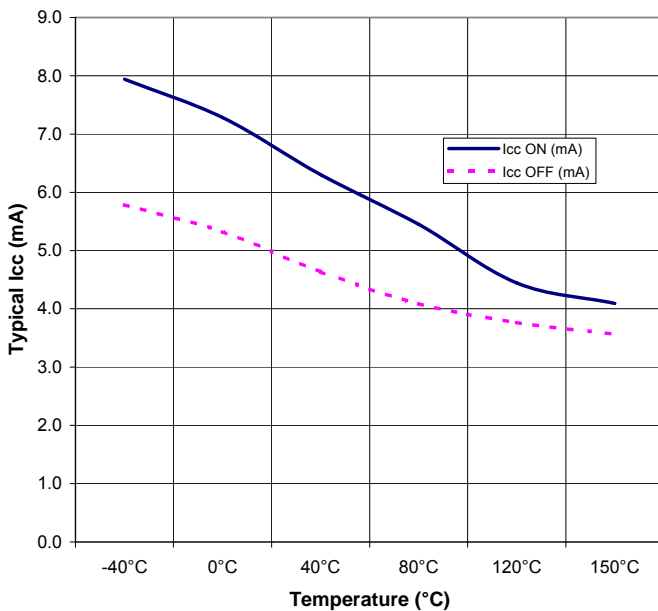
OHN3100 Series, OHS3100 Series



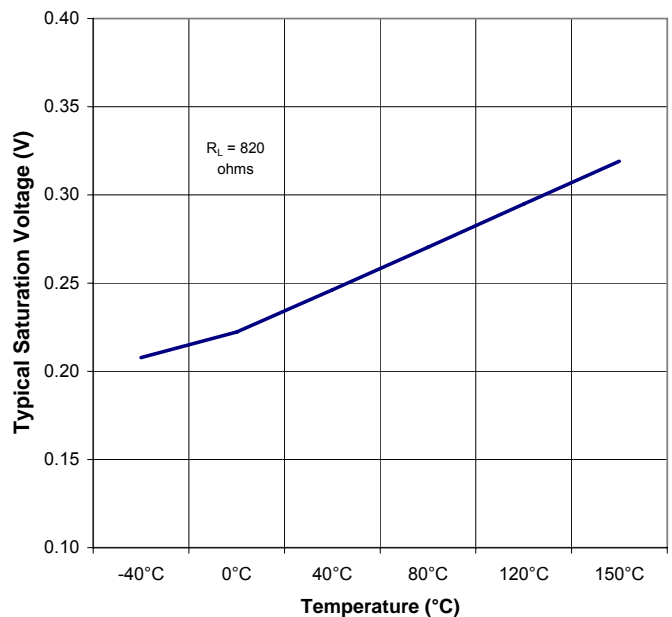
Rise & Fall Time vs Temperature



I_{cc} vs Temperature



Saturation Voltage vs Temperature



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