

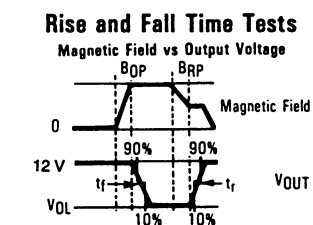
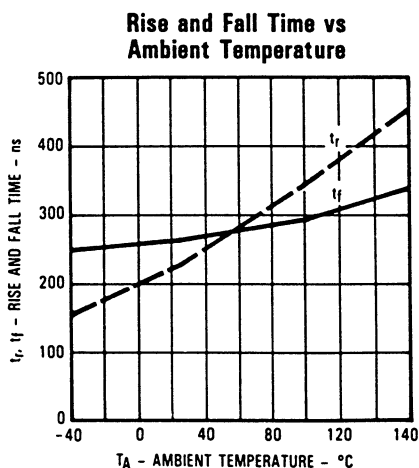
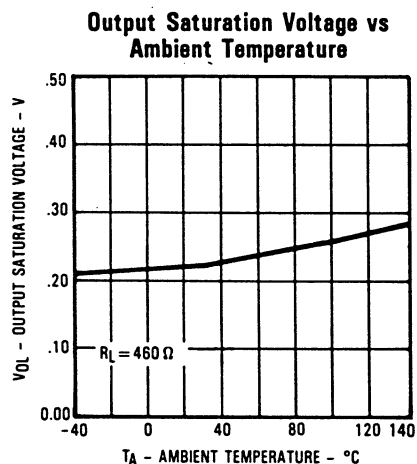
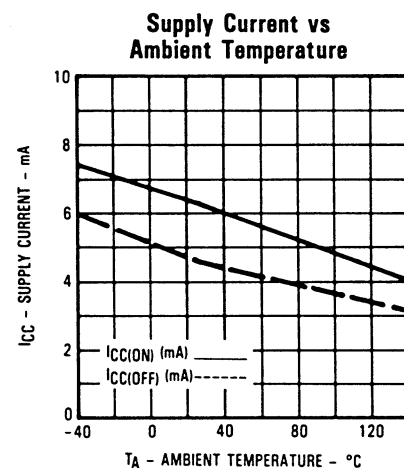
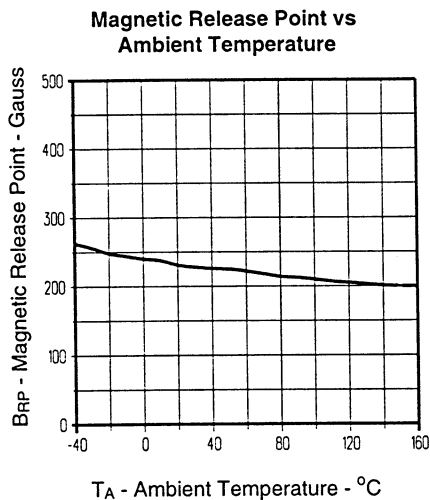
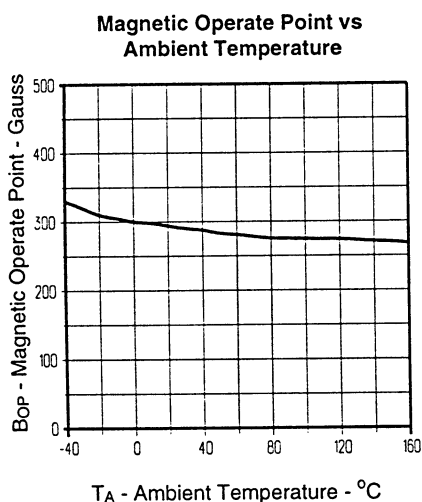
Types OHN3019U, OHS3019U

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

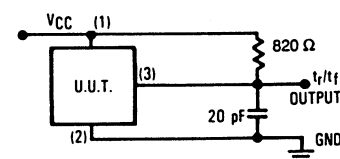
SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
B _{OP}	Magnetic Operate Point ⁽²⁾		300	500	Gauss	
B _{RP}	Magnetic Release Point	125	235		Gauss	
B _H	Magnetic Hysteresis	50	65		Gauss	
I _{CC}	Supply Current		4	7	mA	$V_{CC} = 24 \text{ V}$, Output Off
V _{OL}	Output Saturation Voltage		100	400	mV	$V_{CC} = 4.5 \text{ V}$, $I_{OL} = 20 \text{ mA}$, $B \geq 500 \text{ Gauss}$
I _{OH}	Output Leakage Current		0.1	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	$R_L = 820 \Omega$, $C_L = 20 \text{ pF}$
t _f	Output Fall Time		0.25	1.00	μs	

(2) South pole facing symbolized surface.

Typical Performance Curves



Rise and Fall Time Test Circuit



HALL EFFECT
SENSORS

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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