



# Types OHN3131U, OHS3131U

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

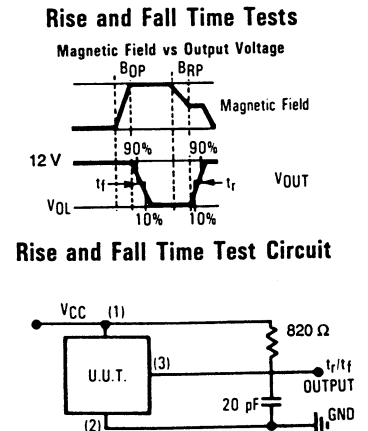
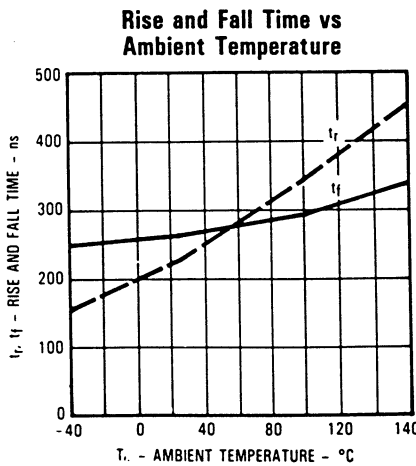
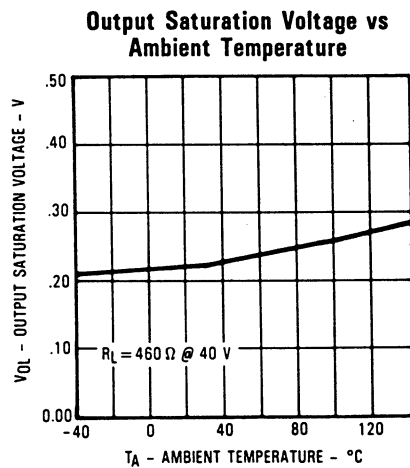
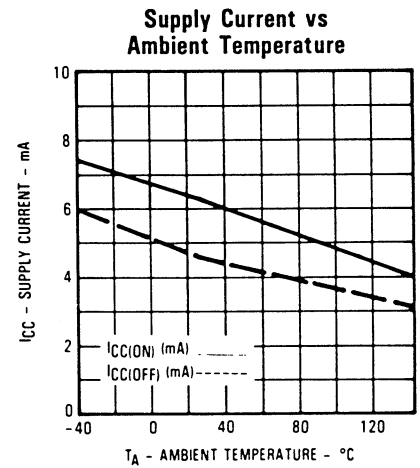
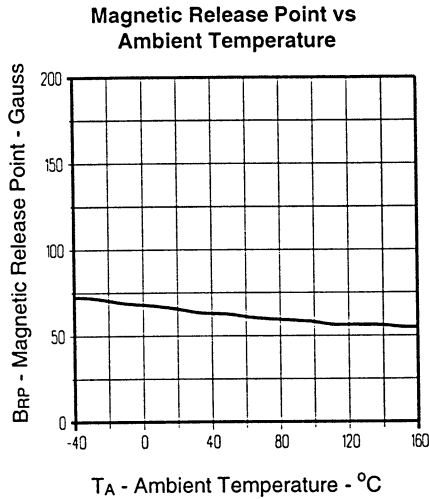
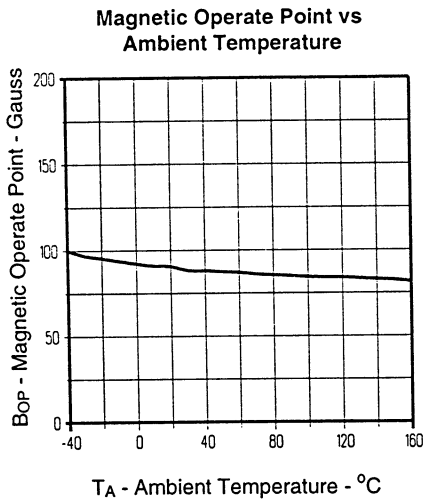
SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
$I_{CC}$	Supply Current		4.0	7.0	mA	$V_{CC} = 24\text{ V}$ , Output Off
$V_{OL}$	Output Saturation Voltage		100	400	mV	$V_{CC} = 4.5\text{ V}$ , $I_{OL} = 20\text{ mA}$ , $B \geq 95\text{ Gauss}$
$I_{OH}$	Output Leakage Current		0.1	10.0	$\mu\text{A}$	$V_{CC} = 24\text{ V}$ , $V_{OUT} = 24\text{ V}$ , $B \leq -95\text{ Gauss}$
$t_r$	Output Rise Time		0.21	1.00	$\mu\text{s}$	$R_L = 820\ \Omega$ , $C_L = 20\text{ pF}$ , $V_{CC} = 12.0\text{ V}$
$t_f$	Output Fall Time		0.25	1.00	$\mu\text{s}$	

## Magnetic Characteristics

CHARACTERISTICS	SYMBOL	$T_A = 25^\circ\text{ C}$		$T_A = -20^\circ\text{ C to }85^\circ\text{ C}$		$T_A = -40^\circ\text{ C to }125^\circ\text{ C}$		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
Operate Point <sup>(2)</sup>	BOP	-75	95	-75	95	-115	135	G
Release Point	BRP	-95	85	-95	85	-135	125	G
Hysteresis	$B_H$	10		10		10		G

(2) South pole facing symbolized surface.

## Typical Performance Curves



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.  
 Optek Technology, Inc. 1215 W. Crosby Road Carrollton, Texas 75006 (972)323-2200 Fax (972)323-2396