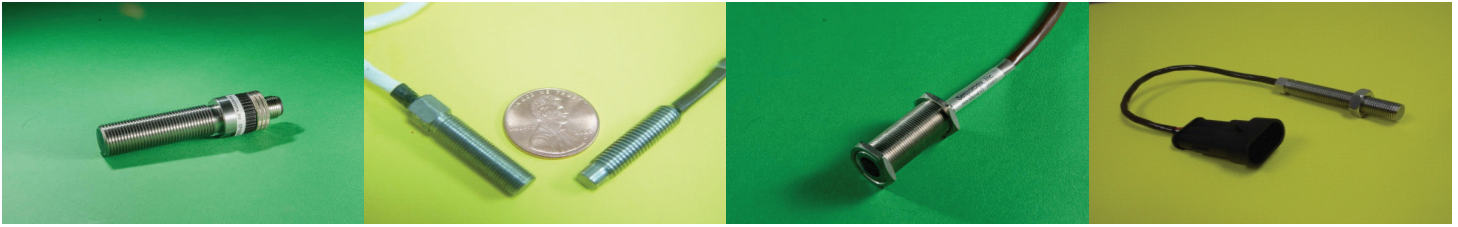
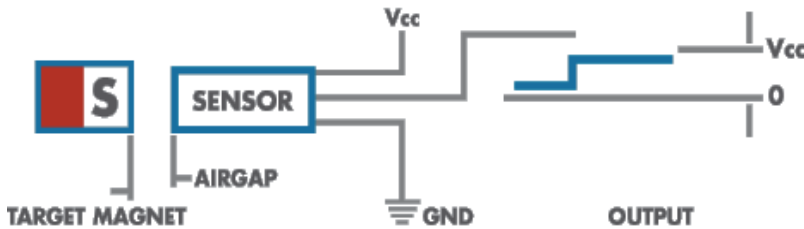


Hall-Effect Proximity Switch Sensor (HP)



Non-contact magnetic sensor proximity switch produces a digital output. The output produced by Hall-Effect Proximity Switch sensor switches between logic low (operate point) and logic high (release point) with presence and absence of a magnet as a target. The built-in hysteresis circuitry allows clean switching of the output even in the presence of external mechanical vibration and electrical noise.

Common Applications: Automation, valve actuator, valve position switch.



CASE TYPES	DESCRIPTION	A
	SMOOTH	0
	ALL THREAD	1
	HEX HEAD	2
	KNURL HEAD	3
	CONNECTOR HEAD	4
	WRENCH FLAT HEAD	5
	SMOOTH / THREAD	6
	WITH FLANGE	7

Target: Magnet
 Frequency : 0-100 KHZ Max
 Output Type: Digital (Square Wave) , TTL Compatible

Magnetic Characteristics

Parameters	TYP "Gauss"
Magnetic Operating Point	25 -180
Magnetic Release Point	5 -140
Magnetic Hysteresis	7 - 40

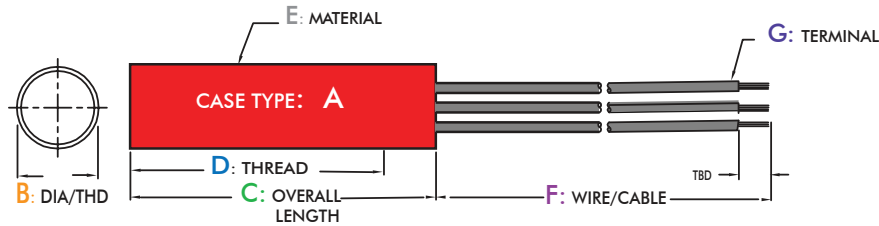
Please contact Sensoronix for the exact Magnetic Characteristics for each standard part number.

Part Number Nomenclature

Sensor Type		HP		XX		XX		Special Modifications	
Case Type "A"		X		X		X		Terminal "G"	
Case Diameter "B"		X		X		X		Connector 0	
1/4" (0.250")	2X, Others 9X							Conn. & Wire 1	
3/8" (0.375")	3X, M-12 12							Conn. & Cable 2	
15/32"(0.468")	4X, M-16 16							Lead Wires 3	
1/2" (0.500")	5X, M-18 18							Cable 4	
5/8" (0.625")	6X, M-20 20								
3/4" (0.750")	7X, M-22 22								
7/8" (0.875")	8X								

Standard (HP) Products Available

Please contact Sensoronix for more detailed information on the standard sensors listed below. All Sensoronix products are custom designed to meet your exact specification requirements.



Products P/N	MECHANICAL SPECIFICATIONS							ELECTRICAL SPECIFICATIONS						ENVIRONMENT
	A	B	C	D	E	F	G	INPUT Voltage (VDC)	INPUT Current (mA)	V Out High (VDC)	V Out Low (VDC)	OUTPUT Current (mA)	Pull-up Resistor (K Ohm)	TEMPERATURE RANGE ° C
1/4" Diameter Series														
* HP 620-300	6	1/4 - 28	1.00	.85	303 S.S.	48 ± .5	20 AWG TEF. WIRE	4.5 To 24	5	V input	0.4	30 Sink	Open	-40 To 150
* HP 620-400	6	1/4 - 28	1.00	.85	303 S.S.	120 ± 3	22 AWG PVC CABLE	4.5 To 24	5	V input	0.4	30 Sink	Open	-20 To 100
5/16" Diameter Series														
HP 130-400	1	5/16 - 24	1.50	1.50	303 S.S.	12 ± 1	22 AWG CABLE	4.5 To 24	10	V input	0.4	15 Sink	4.7	-20 To 105
*** HP 130-420	1	5/16 - 24	1.50	1.50	303 S.S.	12 ± 1	22 AWG PVC CABLE	6.0 To 24	13	V input	0.4	20 Sink	4.7	-20 To 85
3/8" Diameter Series														
* HP 230-400	2	3/8 - 24	1.50	1.25	303 S.S.	48 ± 3	22 AWG CABLE	4.5 To 24	14	V input	0.4	45 Sink	4.7	-40 To 125
* HP 230-410	2	3/8 - 24	1.50	1.25	303 S.S.	12 ± .5	22 AWG PVC CABLE	4.5 To 24	14	V input	0.4	45 Sink	4.7	-20 To 100
* HP 230-420	2	3/8 - 24	1.50	1.25	303 S.S.	36 ± 3	22 AWG TEF. CABLE	4.5 To 24	14	V input	0.4	45 Sink	4.7	-40 To 150
* HP 230-430	2	3/8 - 24	1.00	.75	303 S.S.	18 ± .5	22 AWG PVC CABLE	4.5 To 24	10	V input	0.4	20 Sink	4.7	-40 To 100
15/32" Diameter Series														
HP 140-400	1	15/32 - 32	1.00	1.00	303 S.S.	6 ± .25	22 AWG CABLE	5.5 To 36	9	5.0	0.4	30 Sink	4.7	-40 To 125
HP 142-400	1	15/32 - 32	1.00	1.00	303 S.S.	39.5 ± .25	22 AWG CABLE	4.5 To 24	9	V input	0.4	30 Sink	Open	-40 To 125
1/2" Diameter Series														
(**)(***) HP 050-400	0	1/2	1.10	1.10	303 S.S.	12 ± 1	22 AWG PVC CABLE	6.0 To 30	20	V input	0.4	20 Sink	4.7	-55 To 85
HP 150-100	1	1/2 - 20	1.00	1.00	303 S.S.	12 ± .5	18 AWG WIRE W/ CONNECTOR	4.5 To 25	9	V input	0.4	30 Source	4.7	-20 To 100
HP 150-110	1	1/2 - 20	8.00	8.00	303 S.S.	12 ± .5	18 AWG WIRE W/ CONNECTOR	4.5 To 25	9	V input	0.4	30 Source	4.7	-20 To 100
HP 150-200	1	1/2 - 20	1.00	1.00	303 S.S.	40 ± 2	CABLE W/ CONNECTOR	4.5 To 24	9	V input	0.4	30 Sink	Open	-20 To 100
HP 150-400	1	1/2 - 20	1.00	1.00	303 S.S.	40 ± 2	22 AWG CABLE	4.5 To 24	9	V input	0.4	30 Sink	Open	-40 To 125
5/8" Diameter Series														
HP 360-200	3	5/8 - 18	2.50	2.00	303 S.S.	3	CABLE W/ DEUTCH CONNECTOR	4.5 To 24	10	V input	0.4	25 Sink	2.2	-25 To 125
HP 360-400	3	5/8 - 18	2.72	2.14	303 S.S.	72 ± 2	22 AWG CABLE	4.5 To 24	10	V input	0.4	25 Sink	2.2	-25 To 125
HP 360-410	3	5/8 - 18	2.50	2.00	303 S.S.	36 ± 2	22 AWG TEF. CABLE	4.5 To 24	10	V input	0.4	25 Sink	4.7	-25 To 125
HP 360-420	3	5/8 - 18	2.50	2.00	303 S.S.	24 ± 1	22 AWG PVC CABLE	4.5 To 24	10	V input	0.4	25 Sink	4.7	-25 To 125
HP 460-000	4	5/8 - 18	5.70	4.50	303 S.S.	-	MS3106 CONNECTOR	5.0 To 30	10	V input	0.4	50 Sink	4.7	-40 To 125
HP 460-010	4	5/8 - 18	4.17	2.50	303 S.S.	-	MS3106 CONNECTOR	5.0 To 30	10	V input	0.4	50 Sink	4.7	-40 To 125
HP 460-020	4	5/8 - 18	3.40	1.70	303 S.S.	-	MS3106 CONNECTOR	5.0 To 30	10	V input	0.4	50 Sink	4.7	-40 To 125
(*)(***) HP 460-030	4	5/8 - 18	3.00	2.14	303 S.S.	-	M12 x 1, 4 PINS CONNECTOR ATTACHED	5.5 To 36	10	V input	0.4	20 Sink	4.7	-40 To 100
* HP 460-040	4	5/8 - 18	3.00	2.14	303 S.S.	-	M12 x 1, 4 PINS CONNECTOR ATTACHED	5.5 To 36	10	V input	0.4	50 Source	4.7	-40 To 100
3/4" Diameter Series														
HP 270-400	2	3/4 - 16	2.30	1.87	Alum.	72 ± 3	20 AWG TEF. CABLE	4.5 To 24	10	V input	0.4	50 Sink	Open	-40 To 125
HP 270-410	2	3/4 - 16	2.30	1.87	Alum.	40 ± 2	20 AWG TEF. CABLE	5.5 To 36	10	5.0	0.4	50 Sink	4.7	-40 To 125
(*)(***) HP 270-420	2	3/4 - 16	2.30	1.87	Alum.	8 ± 1	22 AWG PVC CABLE	4.5 To 24	9	V input	0.4	20 Sink	4.7	-20 To 100
HP 270-430	2	3/4 - 16	2.34	2.00	Alum.	10 ± .5	22 AWG PVC CABLE	4.5 To 24	10	V input	0.4	50 Sink	4.7	-40 To 105
M12 Diameter Series														
HP 112-400	1	M12 x .75	.95	.85	Alum.	98 ± 3	22 AWG CABLE	4.5 To 24	10	V input	0.4	25 Sink	Open	-40 To 125

NOTE: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

- * SEALED FRONT
- ** EMC Protection Included
- *** Omnipolar, HIGH SENSITIVE UNIT (contact sensoronix for detailed specs)
- **** NORTH POLE SENSING