

Open type Hall position sensor

SS400 Series / Switching



characteristic :

3.8-30VDC 供电

Digital current sink output

3. One column of PCB pins

Fang Block Hall design eliminates mechanical pressure effects

Magnetic characteristic temperature compensation

Customizable actions/release points

Bipolar, unipolar, latch type

High output current capability —— maximum absolute current 50mA

The moving point/release point is symmetric to the zero point Gauss (bipolar latch)

Working temperature range-40 to 150°C

Encapsulation material: Plaskon 3300H

Surface packaging model: SS400-S (short or shaped pins)

The SS400 contains a thermal balance integrated circuit over the entire temperature range, and its negative temperature compensation characteristics are best matched with the low cost magnetic negative temperature coefficient

Bandwidth gap adjustment provides the SS400 with particularly stable operating characteristics in the 3.8-30 VDC power supply voltage range. The SS400 can continuously output a current of 20mA, with a maximum absolute current of 50mA.

pour :

When a latch-type power failure occurs, its output may change state after power on. In a strong enough magnetic field, the output of the sensor is determined by the magnetic field in which it is located.

Guide to selection

model		SS411A	SS413A	SS441A	SS443A	SS449A	SS461A	SS466A							
Type of magnetic field		twin pole	twin pole	single pole	single pole	single pole	Lock-up	Lock-up							
Supply voltage (VDC)		3.8-30	3.8-30	3.8-30	3.8-30	3.8-30	3.8-30	3.8-30							
Power supply current (maximum)		10mA	10mA	10mA	10mA	10mA	10mA	10mA							
Output type		Current drain	Current drain	Current drain	Current drain	Current drain	Current drain	Current drain							
Output voltage (maximum)		.40V	.40V	.40V	.40V	.40V	.40V	.40V							
Output current (maximum) *		20mA	20mA	20mA	20mA	20mA	20mA	20mA							
Output leakage current (maximum)		10μA	10μA	10μA	10μA	10μA	10μA	10μA							
Output switch time															
V _{CC} =12V , RL=1.6K C=20pF	Increase (10-90%)	0.5 μs typical value 1.5μs maximum value	0.5 μs typical value 1.5μs maximum value	0.5 μs typical value 1.5μs maximum value	0.5 μs typical value 1.5μs maximum value	0.5 μs typical value 1.5μs maximum value	0.5 μs typical value 1.5μs maximum value	0.5 μs typical value 1.5μs maximum value							
	Decrease (90-10%)	15μs typical value 1.5μs maximum value	15μs typical value 1.5μs maximum value	15μs typical value 1.5μs maximum value	15μs typical value 1.5μs maximum value	15μs typical value 1.5μs maximum value	15μs typical value 1.5μs maximum value	15μs typical value 1.5μs maximum value							
magnetic figures		G	mT	G	mT	G	mT	G	mT						
-40	Max action points	70	7.0	140	14.0	135	13.5	215	21.5	435	43.5	110	11.0	200	20.0
	Minimum release point - minimum hysteresis	-70	-7.0	-140	-14.0	20	2.0	80	8.0	210	21.0	-110	-11.0	-200	-20.0
		15	1.5	20	2.0	15	1.5	25	2.5	30	3.0	50	5.0	200	20.0
0	Max action points	65	6.5	140	14.0	117	11.7	190	19.5	400	40.0	90	9.0	185	18.5
	Minimum release point - minimum hysteresis	-65	-6.5	-140	-14.0	20	2.0	80	8.0	230	23.0	-90	-9.0	-185	-18.5
		15	1.5	20	2.0	18	1.8	25	2.5	30	3.0	50	5.0	200	20.0
25	Max action points	60	6.0	140	14.0	115	11.5	180	18.0	390	39.0	85	8.5	180	18.0
	Minimum release point - minimum hysteresis	-60	-6.0	-140	-14.0	20	2.0	75	7.5	235	23.5	-85	-8.5	-180	-18.0
		15	1.5	20	2.0	20	2.0	25	2.5	30	3.0	50	5.0	200	20.0
85	Max action points	60	6.0	140	14.0	120	12.0	180	18	400	40.0	85	8.5	180	18.0
	Minimum release point - minimum hysteresis	-60	-6.0	-140	-14.0	15	1.5	70	7.0	215	21.5	-85	-8.5	-180	-18.0
		12	1.2	20	2.0	15	1.5	15	1.5	30	3.0	50	5.0	190	19.0
125	Max action points	65	6.5	140	14.0	123	12.3	190	19.0	410	41.0	100	10.0	180	18.0
	Minimum release point - minimum hysteresis	-65	-6.5	-140	-14.0	15	1.5	60	6.0	200	20.0	-100	-10.0	-180	-18.0
		12	1.2	20	2.0	8	0.8	10	1.0	30	3.0	50	5.0	160	16.0
150	Max action points	70	7.0	140	14.0	125	12.5	200	20.0	420	42.0	110	11.0	185	18.5
	Minimum release point - minimum hysteresis	-70	-7.0	-140	-14.0	10	1.0	55	5.5	185	18.5	-110	-11.0	-185	-18.5
		10	1.0	20	2.0	5	0.5	5	0.5	30	3.0	50	5.0	140	14.0

Note: SS400 can be ordered and installed on online belts and roll belts with a pin spacing of 0.1" and 3,000 SS400 sensors per roll belt.

* All SS400 series absolute output current values are 50mA.

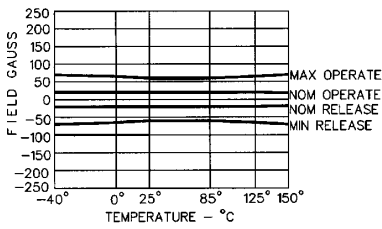
G=Gauss mT=milliTesla

Open type Hall position sensor

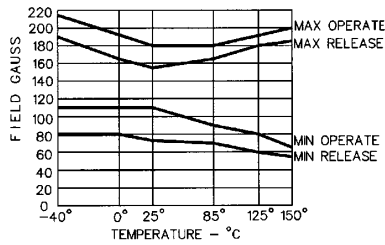
SS400 Series / Switching

Action and release points

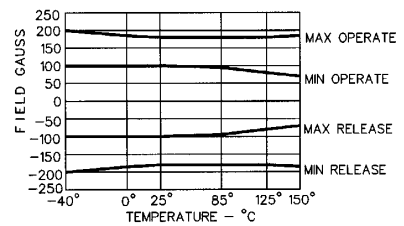
SS411A



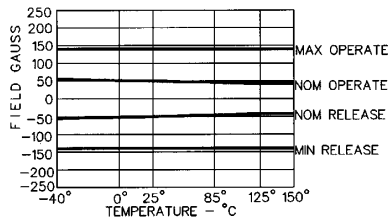
SS443A



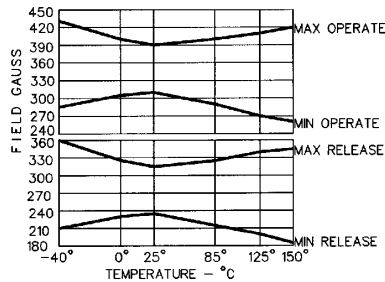
SS466A



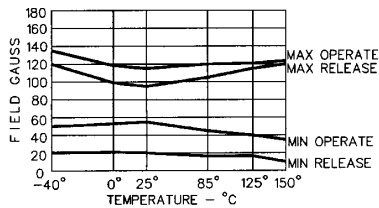
SS413A



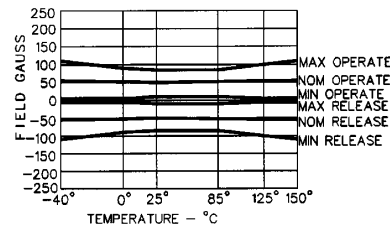
SS449A



SS441A

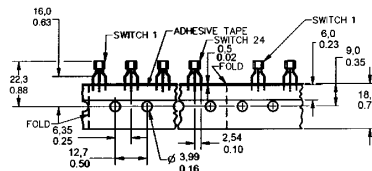


SS461A

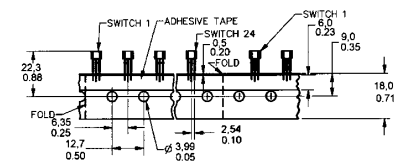


Recommended model	type
SS411A	twin pole
SS413A	twin pole
SS441A	single pole
SS443A	single pole
SS461A	Lock-up
SS466A	Lock-up

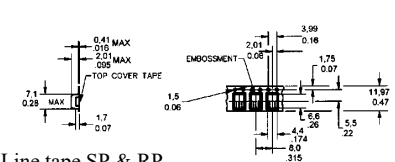
Installation dimensions (for reference only)



Line tape T 2

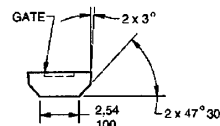


Line tape T 3

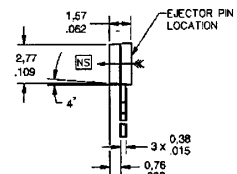
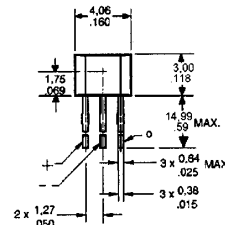


Line tape SP & RP

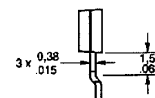
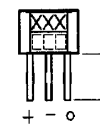
Tape styles T2 and T3 are supplied in Ammopack (Fanfold) format, in cardboard boxes. Each box contains 5000 sensors.



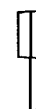
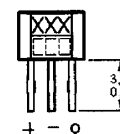
Standard pins



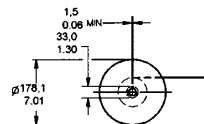
Surface Mount (S)



crura breve (-R)



Rolling direction



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