

查询"55140-2L-01-E"供应商



55140 Flange Mount Hall Effect Sensor Features and Benefits

Features

- Magnetically operated position sensor
- Digital, latching or programmable analogue types available
- Medium, high or programmable sensitivities
- 3 wire (voltage output) or 2 wire (current output) versions
- Vibration 50g max. @ 50-2,000Hz
- Shock 150g max. @ 11ms 1/2 Sine
- EMC to DIN 40839 (Consult Hamlin)
- Reverse/Over Voltage Protection
- Built in temperature compensation

Benefits

- High switching speed up to 10kHz
- Long life; up to 20 billion operations
- Unaffected by harsh environments
- Operates in static or dynamic magnetic field
- Customer selection of cable length and connector type

Applications

- Position and limit sensing
- RPM measurement
- Flow metering
- Commutation of brushless dc motors
- Angle sensing
- Magnetic encoders

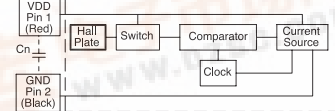
DIMENSIONS (in) mm

2 WIRE VERSION ILLUSTRATED

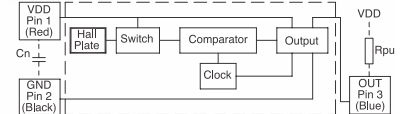


BLOCK DIAGRAMS

2 WIRE VERSION



3 WIRE VERSION



Notes

- 1) Add capacitor Cn as shown, close to the sensor, for transient suppression if required
- 2) Add resistor Rpu as shown for sinking output

CUSTOMER OPTIONS - Switching Specifications

SPECIFICATIONS			Digital Switch or Digital Latch		A - Analogue (Programmable Only) (Note 2)
Hall Type			3 Wire (Voltage output)	2 Wire (Current Output)	
Supply Voltage (Note 1)	Absolute Ratings	Vdc	-15 to +28	-15 to +28	8.5
	Operate	Vdc	+3.8 to +24	+3.75 to +24	4.5-5.5
	Overvoltage Protection	Vdc-max	32	32	19.5
Output High Voltage		Vdc	sinking output	N/A	4.65
Output Low Voltage		Vdc-max	0.4 @ 20mA	N/A	0.35
Output Current (continuously on)		mA-max	20	N/A	-1.0 to +1.0
Current Consumption over Temperature Range	Low	mA	1.6 - 5.2	5-6.9	2 - 10
	High	mA	1.6 - 5.2	12-17	2 - 10
Switching Speed		kHz-max	10	10	2
Temperature	Operating	°C	-40 to +100	-40 to +100	-40 to +100
	Storage	°C	-65 to +105	-65 to +105	-65 to +150

Note 1 - As long as Tj (Junction Temperature) max. is not exceeded

Note 2 - Preprogrammed by Hamlin or Customer pending agreement

CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specification

TABLE 1 HALL OPTIONS			
ACTIVATE DISTANCES ARE APPROXIMATE USING NeFeB MAGNET (.827L x .276W x .185H) 21 x 7 x 4.7 HAMLIN P/N 5812334000			
Select Hall Option	Hall Type	Sensitivity Gauss (Typ.)	Activate - d (in) mm
2M	2 Wire Switch	120	(.531) 13.5
2H	2 Wire Switch	57	(.728) 18.5
2L	2 Wire Latch	40	(.827) 21.0
3M	3 Wire Switch	130	(.492) 12.5
3H	3 Wire Switch	59	(.709) 18.0
3L	3 Wire Latch	86	(.394) 10.0
AP	Analogue	Programmable	Consult Hamlin

TABLE 2	
Cable Length:- (Cable Type 24 AWG 7/32 PVC 105°C UL1430/UL1569)	
Standard Lengths	
SELECT OPTION	CABLE LENGTH (in) mm
01	(3.94) 100
02	(11.81) 300
03	(19.69) 500
04	(29.53) 750
05	(39.37) 1000

TABLE 3		
Termination Options:-		
SELECT OPTION	DESCRIPTION (2 WIRE VERSION ILLUSTRATED)	
A	Tinned leads	
C	6.35mm fastons	
D	AMP MTE 2.54mm pitch	
E	JST XHP 2.5mm pitch	

ORDERING INFORMATION

55140 - XX - XX - X

Series 55140

Hall option

Cable Length

Termination

Table 1

Table 2

Table 3

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