

55110 Flange Mount Hall Effect Sensor with L.E.D.



Features

- Magnetically operated position sensor
- Digital or Latching types available
- Integral LED
- Medium or high sensitivities
- 3 wire (voltage output)
- Reverse/Over voltage protection
- Built in temperature compensation

Benefits

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

Applications

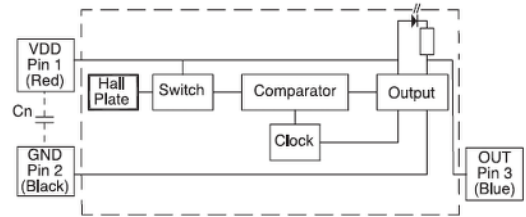
- Position and limit sensing
- RPM measurement
- Flow metering
- Commutation of brushless dc motors
- Angle sensing
- Magnetic encoders

DIMENSIONS (in) mm



General Tol.: ± (.010) 0.25

BLOCK DIAGRAMS



Note: Add capacitor Cn as shown, close for the sensors for transient suppression if required.

CUSTOMER OPTIONS - Specifications

Hall Type			Digital Switch or Digital Latch
Hall Type			3 Wire (Voltage output)
Supply Voltage (Note 1)	Absolute Rating	Vdc	-15 to +28
	Operate	Vdc	+3.8 to +24
	Overvoltage Protection	Vdc - max.	32
Output High Voltage		Vdc - min.	Vdd-2 @ 0.1mA (sinking output with internal pull-up)
Output Low voltage		Vdc - max.	0.4 @ 20mA
Output Current (continuously on)		mA - max.	20
Switching Speed		Khz - max.	10
Temperature	Operating Storage	°C	-40 to +85
		°C	-65 to +85

Note 1: As long as Tj (Junction Temperature) max. Is not exceeded.

CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specification

Select Hall Option	Hall Type	Sensitivity Gauss (typ.)	Activate - d (in) mm
3M	3 Wire Switch	130	(.492) 12.5
3H	3 Wire Switch	59	(.709) 18.0
3L	3 Wire Latch	86	(.394) 10.0

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

SELECT OPTION	DESCRIPTION (2 WIRE VERSION ILLUSTRATED)
A	Tinned Leads
D	AMP MTE 2.54mm pitch
E	JST XHP 2.5mm pitch

ORDERING INFORMATION



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