



Features

- Magnetically operated position sensor
- Matching actuator available
- Compact size requires only 3.2cm² board space
- Screw down or adhesive mounting
- Customer defined sensitivity
- Choice of cable length
- Leads can exit from LH or RH side

Benefits

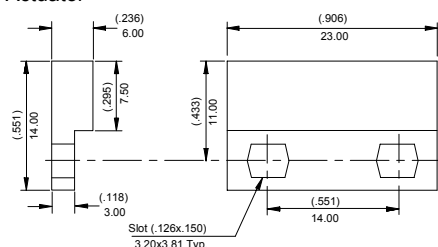
- No standby power requirement
- Operates through non-ferrous materials such as wood, plastic or aluminium
- Hermetically sealed, magnetically operated contacts continue to operate long after optical and other technologies fail due to contamination

Applications

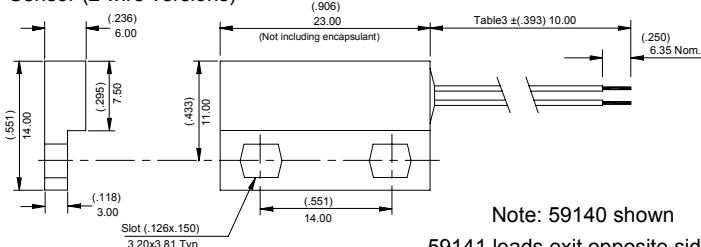
- Position and limit sensing
- Security system switch
- Linear actuators
- Door switch

DIMENSIONS (in) mm

Actuator



Sensor (2 wire versions)



SCHEMATICS

Switch Types 1 & 2

Black
Black

Switch Type 3

Black
Blue
White

Switch Type 4

Black
Black

CUSTOMER OPTIONS - Switching Specifications

TABLE 1

Switch Type

Select Option

1

2

3

4

Contact Type

Normally Open

Normally Open High V.

Change Over

Normally Closed

Contact Rating

Power

Watts - max

10

10

5

5

Voltage

Switching

Vdc - max.

200

300

175

175

Breakdown

Vdc - min.

250

450

200

200

Current

Switching

A - max.

0.5

0.5

0.25

0.25

Carry

A - max.

1.2

1.5

1.5

1.5

Resistance

Contact, Initial

Ohms - max.

0.2

0.2

0.2

0.2

Insulation

Ohms - min.

10¹⁰

10¹⁰

10⁹

10⁹

Temperature

Operating

°C

-40 to +105

-20 to +105

-40 to +105

-40 to +105

Storage

°C

-65 to +105

-65 to +105

-65 to +105

-65 to +105

Time

Operate

ms - max.

1.0

1.0

3.0

3.0

Release

ms - max.

1.0

1.0

3.0

3.0

Capacitance

Contact

pF - typ.

0.3

0.2

0.3

0.3

Shock

11ms ½ sine

G - max.

100

100

50

50

Vibration

50-2000 Hz.

G - max.

30

30

30

30

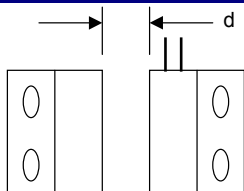
CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specifications

TABLE 2

Sensitivity

Activate distances (d) are approximate using Hamlin 57140-000 actuator as illustrated.

Switch AT before modification



Select Option	S		T		U		V	
Switch Type	Pull-In AT Range	Activate Distance (d) (in)mm	Pull-In AT Range	Activate Distance (d) (in)mm	Pull-In AT Range	Activate Distance (d) (in)mm	Pull-In AT Range	Activate Distance (d) (in)mm
1	12-18	(.453)	17-23	(.374)	22-28	(.315)	27-33	(.295)
2		11.5		9.5		8.0		7.5
3	15-20	(.413)	20-25	(.354)	25-30	(.295)		
4		10.5		9.0		7.5		

TABLE 3

Cable Length

(Cable 24AWG 7/32 PVC 105°C UL1430 / UL1569)

Select Option

Length(in)mm

02

(11,81) 300

05

(39,37)1,000

TABLE 4

Termination (2 wire versions shown)

Select Option	Description	Diagram
A or F	Tinned or untinned	

ORDERING INFORMATION

Series 59140/59141	59140/59141	X	X	XX	X
Switch Type	Table 1 (1, 2, 3 or 4)				
Sensitivity	Table 2 (S, T, U or V)				
Cable Length	Table 3 (02 or 05)				
Termination	Table 4 (A or F)				

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