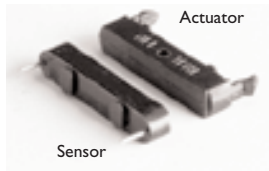


59045 Mini PCB Mount Features and Benefits



Features

- 2 part magnetically operated proximity sensor
- Normally open contact configuration
- Moulded stand-offs to allow board washing
- Customer defined sensitivity

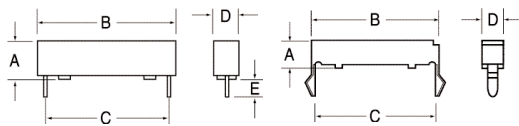
Benefits

- Mounts directly into printed circuit board
- 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
- Simple installation and adjustment

Applications

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

DIMENSIONS (in) mm



	A Max	B Max	C ± .10 (0,25)	D Max	E ± .015 (0,38)
57045	(.170) 4,32	(.700) 17,78	See Note Below	(.130) 3,3	—
59045	(.170) 4,32	(.700) 17,78	(.600) 15,24	(.130) 3,3	(.130) 3,30

Mounting: (.062) 1,57 thick board, (.125) 3,17 holes on (.540) 13,72

CUSTOMER OPTIONS - Switching Specifications

TABLE 1 Contact Type			Normally Open
Switch Type			I
Power	Power	Watt - max.	10
	Switching	Vdc - max.	200
Voltage	Breakdown	Vdc - min.	250
	Switching	A - max.	0.5
Current	Carry	A - max.	1.2
	Contact, Initial	Ω - max.	0.2
Resistance	Insulation	Ω - min.	10 ¹⁰
	Contact	pF - typ.	0.3
Capacitance	Operating	°C	-40 to +105
	Storage	°C	-65 to +105
Time	Operate	ms - max.	1.0
	Release	ms - max.	1.0
Shock	11ms 1/2 sine	G - max.	100
Vibration	50-2000 Hz	G - max.	30

CUSTOMER OPTIONS - Sensitivity

TABLE 2

Sensitivity Options:-
Activate Distances are approximate using Hamlin 57045 actuator as illustrated
Switch AT before modification



Select Option		S		T		U	
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
I	Normally Open	15-20	(.197) 5,0	20-25	(.177) 4,5	25-30	(.157) 4,0

ORDERING INFORMATION

N.B. 57045 actuator sold separately

59045 - I - X - 00 - 0

Series 59045

Switch Type

Sensitivity

Table 1

Table 2

Hamlin USA Tel: +1 920 648 3000 • Fax: +1 920 648 3001 • Email: sales.us@hamlin.com
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Hamlin Germany Tel: +49 (0) 6181 953660 • Fax: +49 (0) 6181 953666 • Email: sales.de@hamlin.com
Hamectrol France Tel: +33 (0) 1 4687 0202 • Fax: +33 (0) 1 4686 6786 • Email: sales.fr@hamlin.com