

## File E61760(N) 59045 and 59050 PCB Mount Features and Benefits



### Features

- 2 part magnetically operated proximity sensor
- Standard normally open and high voltage normally open contact configuration
- Sub-miniature 18mm (0.700") version available Moulded stand-offs to allow board washing

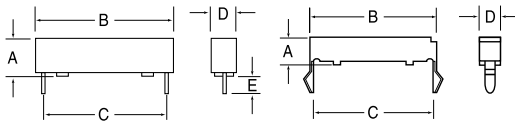
### Benefits

- 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	-
57050	(.265) 6,73	(.900) 22,86	See Note Below	(.180) 4,57	-
59045	(.170) 4,32	(.700) 17,78	(.600) 15,24	(.130) 3,3	(.130) 3,30
59050	(.180) 4,57	(.900) 22,86	(.800) 20,32	(.170) 4,32	(.130) 3,30

Mounting: (.062) 1,57 thick board, (.125) 3,17 holes. 57045 on (.540) 13,72 and 57050 on (.720) 18,28 nom. centres.

## Recommended Activating Positions:



Sensors and Matching Actuators (Note 2)		Actuator	Sensor
Must Actuate	Must Release		
(.075) 1,90	(.550) 13,97	57045-000	59045-010
(.150) 3,81	(.750) 19,05	57050-000	59050-010
			59050-020

Electrical Specifications and Operating Characteristics			Form A SPST-NO Standard	Form A SPSTNO High Voltage
Contact Rating		Watt - max.	10	10
Voltage	Switching	Vdc - max.	200	300
	Breakdown	Vdc - min.	250	450
Current	Switching	A - max.	0.5	0.5
	Carry	A - max.	1.0	1.5
Resistance	Contact, Initial (1)	Ω - max.	0.2	0.2
	Insulation	Ω - min.	10 <sup>10</sup>	10 <sup>10</sup>
Capacitance	Contact	p F - typ.	0.3	0.2
Temperature	Operating	°C	-40 to + 105	-20 to + 105
	Storage	°C	-65 to + 105	-65 to + 105
Time	Operate	ms - typ.	1.0	1.0
	Release	ms - typ.	1.0	1.0
Shock	11ms 1/2 sine	G - max.	100	100
Vibration	50-2000 Hz	G - max.	30	30

- Notes: 1. Board Mounting:  
 57045-000 requires (0.062) 1,57 thick board, (0.125) 3,17 dia. holes on (0.540) 13,72 nominal centres.  
 57050-000 requires (0.062) 1,57 thick board, (0.125) 3,17 dia. holes on (0.720) 18,28 nominal centres.
2. Order Actuators as a separate item.
3. Underwriters Laboratories recognition. For details on electrical specifications, contact Hamlin.

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