



**THE DATASHEET OF  
59045-010**



**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
- Subminiature 17mm (0.700") version available Moulded stand-offs to allow board washing

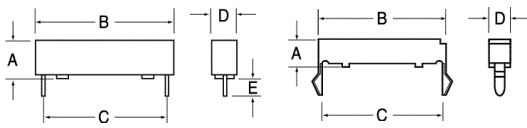
**Benefits**

- 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**



	A Max	B Max	C ± .10 (0,25)	D Max	E ± .015 (0,38)
<b>57045</b>	(.170) 4,32	(.700) 17,78	See Note Below	(.130) 3,3	—
<b>57050</b>	(.265) 6,73	(.900) 22,86	See Note Below	(.180) 4,57	—
<b>59045</b>	(.170) 4,32	(.700) 17,78	(.600) 15,24	(.130) 3,3	(.130) 3,30
<b>59050</b>	(.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. centers.

**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 SPST-NO High Voltage
Contact Type				
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	- max.	0.2	0.2
	Insulation	- 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, (.125) 3,17 dia. holes on (.540) 13,72 nominal centers.  
**57050-000** requires (0.062) 1,57 thick board, (.125) 3,17 dia. holes on (.720) 18,28 nominal centers.
  2. Order Actuators as a separate item.
  3. Underwriters Laboratories recognition. For details on electrical specifications, contact Hamlin, Inc.

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