

## 59060 Stainless Steel Threaded Barrel Features and Benefits



### Features

- 2 part magnetically operated proximity sensor
- Stainless steel threaded barrel with retaining nuts
- M8 thread
- Choice of normally open or high voltage contacts
- Customer defined sensitivity
- Choice of cable length and connector

### Benefits

- Robust construction makes this sensor well suited to harsh industrial environments
- Simple installation and adjustment using supplied retaining nuts
- No standby power requirement
- Operates through non-ferrous materials such as wood, plastic or aluminium

### Applications

- Position and limit
- Security systems
- Linear actuator
- Industrial process control

### DIMENSIONS (in) mm



SCHEMATICS	Switch Type
	1 & 2
	3
	4

### CUSTOMER OPTIONS - Switching Specifications

TABLE 1			Normally Open	Normally Open High Voltage	Change Over	Normally Closed
Contact Type			1	2	3	4
Switch Type	Power	Watt - 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	Ω - max.	0.2	0.2	0.2	0.2
	Insulation	Ω - min.	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>7</sup>	10 <sup>7</sup>
Capacitance	Contact	pF - typ.	0.3	0.2	0.3	0.3
	Operating	°C	-40 to +105	-20 to +105	-40 to +105	-40 to +105
Temperature	Storage	°C	-65 to +105	-65 to +105	-65 to +105	-65 to +105
	Operate	ms - max.	1.0	1.0	3.0	3.0
Time	Release	ms - max.	1.0	1.0	3.0	3.0
	Shock	11ms 1/2 sine	G - max.	100	50	50
Vibration	50-2000 Hz	G - max.	30	30	30	

### CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specification

TABLE 2								TABLE 3		TABLE 4																																																																									
<b>Sensitivity Options:-</b> Activate Distances are approximate using Hamlin 57060 actuator as illustrated Switch AT before modification								<b>Cable Type:-</b> 24 AWG 7/32 PVC 105°C DOUBLE INSULATED		<b>Termination Options:-</b>																																																																									
								Standard Lengths		(2 WIRE VERSIONS ILLUSTRATED)																																																																									
<table border="1"> <thead> <tr> <th>Select Option</th> <th colspan="2">S</th> <th colspan="2">T</th> <th colspan="2">U</th> <th colspan="2">V</th> </tr> <tr> <th>Switch Type</th> <th>Pull In AT Range</th> <th>Activate Distance d (in) mm</th> <th>Pull In AT Range</th> <th>Activate Distance d (in) mm</th> <th>Pull In AT Range</th> <th>Activate Distance d (in) mm</th> <th>Pull In AT Range</th> <th>Activate Distance d (in) mm</th> </tr> </thead> <tbody> <tr> <td>1 Normally Open</td> <td>12-18</td> <td>(.472)</td> <td>17-23</td> <td>(.354)</td> <td>22-28</td> <td>(.276)</td> <td>27-33</td> <td>(.217)</td> </tr> <tr> <td>2 High Voltage</td> <td></td> <td>12.0</td> <td></td> <td>9.0</td> <td></td> <td>7.0</td> <td></td> <td>5.5</td> </tr> <tr> <td>3 Change Over</td> <td></td> <td>(.413)</td> <td></td> <td>(.295)</td> <td></td> <td>(.236)</td> <td></td> <td></td> </tr> <tr> <td>4 Normally Closed</td> <td>15-20</td> <td>10.5</td> <td>20-25</td> <td>7.5</td> <td>25-30</td> <td>6.0</td> <td></td> <td></td> </tr> </tbody> </table>								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 Normally Open	12-18	(.472)	17-23	(.354)	22-28	(.276)	27-33	(.217)	2 High Voltage		12.0		9.0		7.0		5.5	3 Change Over		(.413)		(.295)		(.236)			4 Normally Closed	15-20	10.5	20-25	7.5	25-30	6.0			<table border="1"> <thead> <tr> <th>SELECT OPTION</th> <th>CABLE LENGTH (in) mm</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>(3.94) 100</td> </tr> <tr> <td>02</td> <td>(11.81) 300</td> </tr> <tr> <td>03</td> <td>(19.69) 500</td> </tr> <tr> <td>04</td> <td>(29.53) 750</td> </tr> <tr> <td>05</td> <td>(39.37) 1000</td> </tr> </tbody> </table>		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	<table border="1"> <thead> <tr> <th>SELECT OPTION</th> <th>DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)</th> </tr> </thead> <tbody> <tr> <td>A or F</td> <td>Tinned or untinned leads</td> </tr> <tr> <td>C</td> <td>6.35mm fastons</td> </tr> </tbody> </table>		SELECT OPTION	DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)	A or F	Tinned or untinned leads	C	6.35mm fastons
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 Normally Open	12-18	(.472)	17-23	(.354)	22-28	(.276)	27-33	(.217)																																																																											
2 High Voltage		12.0		9.0		7.0		5.5																																																																											
3 Change Over		(.413)		(.295)		(.236)																																																																													
4 Normally Closed	15-20	10.5	20-25	7.5	25-30	6.0																																																																													
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 VERSIONS ILLUSTRATED)																																																																																		
A or F	Tinned or untinned leads																																																																																		
C	6.35mm fastons																																																																																		

### ORDERING INFORMATION

N.B. 57060 actuator sold separately



Series 59060

Switch Type

Sensitivity

Cable Length

Termination

Table 1

Table 2

Table 3

Table 4

**Hamlin USA** Tel: +1 920 648 3000 • Fax: +1 920 648 3001 • Email: sales.us@hamlin.com  
**Hamlin UK** Tel: +44 (0)1379 649700 • Fax: +44 (0)1379 649702 • Email: sales.uk@hamlin.com  
**Hamlin Germany** Tel: +49 (0) 6181 953660 • Fax: +49 (0) 6181 953666 • Email: sales.de@hamlin.com  
**Hametrol France** Tel: +33 (0) 1 4687 0202 • Fax: +33 (0) 1 4686 6786 • Email: sales.fr@hamlin.com

DETAILS PROVIDED ON THIS DATA SHEET ARE PROVIDED FOR INFORMATION PURPOSES ONLY AND SHOULD NOT BE RELIED UPON AS BEING ACCURATE FOR ANY PARTICULAR PURPOSE. Product performance may be affected by the application to which the product is put. Upon request, HAMLIN will assist purchasers by providing information specific to any particular application. HAMLIN disclaims any and all liability whatsoever for any purchaser's reliance upon the information contained on this data sheet without further consultation with authorised representatives of HAMLIN.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.