

File E61760(N)

59065 & 59070 Threaded Barrel Features and Benefits



Features

- 2 part magnetically operated proximity sensor
- Threaded barrel with retaining nuts
- Available as M8 (57070/59070) or 5/16 (57065/59065) size options
- Customer defined sensitivity
- Choice of cable length and connector

Benefits

- Simple installation and adjustment using supplied retaining nuts
- No standby power requirement
- Operates through non-ferrous materials such as wood, plastic or aluminium
- Simple installation and adjustment

Applications

- Position and limit sensing
- Security system switch
- Linear actuators
- 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^{10}	10^{10}	10^7	10^7
Capacitance	Contact	pF - typ.	0.3	0.2	0.3	0.3
	Temperature	Operating	$^{\circ}\text{C}$	-40 to +105	-20 to +105	-40 to +105
Time	Storage	$^{\circ}\text{C}$	-65 to +105	-65 to +105	-65 to +105	-65 to +105
	Operate	ms - max.	1.0	1.0	3.0	3.0
Shock	Release	ms - max.	1.0	1.0	3.0	3.0
	11ms 1/2 sine	G - max.	100	100	50	50
Vibration	50-2000 Hz	G - max.	30	30	30	30

CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specification

TABLE 2								TABLE 3		TABLE 4																																																																												
Sensitivity Options:- Activate Distances are approximate using Hamlin 57065/57070 actuator as illustrated. Switch AT before modification.								Cable Type:- 24 AWG 7/32 PVC 105°C ULI430/UL1569		Termination Options:-																																																																												
								Standard Lengths		SELECT OPTION DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)																																																																												
<table border="1"> <thead> <tr> <th>Switch Type</th> <th>S</th> <th>T</th> <th>U</th> <th>V</th> </tr> <tr> <th></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>(354)</td> <td>17-23</td> <td>(276)</td> <td>22-28</td> <td>(236)</td> <td>27-33</td> <td>(177)</td> </tr> <tr> <td>2 High Voltage</td> <td></td> <td>9,0</td> <td></td> <td>7,0</td> <td></td> <td>6,0</td> <td></td> <td>4,5</td> </tr> <tr> <td>3 Change Over</td> <td></td> <td>(295)</td> <td></td> <td>(236)</td> <td></td> <td>(197)</td> <td></td> <td></td> </tr> <tr> <td>4 Normally Closed</td> <td>15-20</td> <td>7,5</td> <td>20-25</td> <td>6,0</td> <td>25-30</td> <td>5,0</td> <td></td> <td></td> </tr> </tbody> </table>								Switch Type	S	T	U	V		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	(354)	17-23	(276)	22-28	(236)	27-33	(177)	2 High Voltage		9,0		7,0		6,0		4,5	3 Change Over		(295)		(236)		(197)			4 Normally Closed	15-20	7,5	20-25	6,0	25-30	5,0			<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"> <tbody> <tr> <td>A or F</td> <td>Tinned or untinned leads</td> <td></td> </tr> <tr> <td>C</td> <td>6.35mm fastons</td> <td></td> </tr> <tr> <td>D</td> <td>AMP MTE 2.54mm pitch</td> <td></td> </tr> <tr> <td>E</td> <td>JST XHP 2.5mm pitch</td> <td></td> </tr> </tbody> </table>			A or F	Tinned or untinned leads		C	6.35mm fastons		D	AMP MTE 2.54mm pitch		E	JST XHP 2.5mm pitch	
Switch Type	S	T	U	V																																																																																		
	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	(354)	17-23	(276)	22-28	(236)	27-33	(177)																																																																														
2 High Voltage		9,0		7,0		6,0		4,5																																																																														
3 Change Over		(295)		(236)		(197)																																																																																
4 Normally Closed	15-20	7,5	20-25	6,0	25-30	5,0																																																																																
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																																																																																					
A or F	Tinned or untinned leads																																																																																					
C	6.35mm fastons																																																																																					
D	AMP MTE 2.54mm pitch																																																																																					
E	JST XHP 2.5mm pitch																																																																																					

ORDERING INFORMATION

N.B. 57065/57070 actuator sold separately

59065/59070 - X - X - XX - X

Series 59065/59070

Switch Type — Table 1

Sensitivity — Table 2

Cable Length — Table 3

Termination — 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
Hamlectrol 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

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