

59075 Heavy Duty Stainless Steel Threaded Barrel Features and Benefits



Features

- 2 part magnetically operated proximity sensor
- Heavy duty stainless steel threaded barrel with retaining nuts
- M12 by 1.00mm thread
- Choice of normally open, high voltage or change over 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

- Off road and heavy vehicles
- Farm machinery

DIMENSIONS (in) mm



SCHEMATICS	Switch Type
	Blue Brown 1 & 2
	Black Blue Red 3
	Blue Brown 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	°C	-40 to +85	-20 to +85	-40 to +85
Time	Storage	°C	-65 to +85	-65 to +85	-65 to +85	-65 to +85
	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								
Sensitivity Options:- Activate Distances are approximate using Hamlin 57075 actuator as illustrated Switch AT before modification								
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	
1 Normally Open	12-18	(.984)	17-23	(.827)	22-28	(.748)	27-33	(.689)
2 High Voltage		25.0	21.0		19.0		17.5	
3 Change Over		(.906)	(.787)		(.709)			
4 Normally Closed	15-20	23.0	20-25	(.787)	25-30	(.709)		

TABLE 3	
Cable Type:- BS 6500 3A 16/0.2 PVC DOUBLE INSULATED	
Standard Lengths	
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 4		
Termination Options:-		
SELECT OPTION	DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)	
A or F	Tinned or untinned leads	
C	6.35mm fastons	

ORDERING INFORMATION

N.B. 57075 actuator sold separately



Series 59075

Switch Type

Sensitivity

Cable Length

Termination

Table 1

Table 2

Table 3

Table 4

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