

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

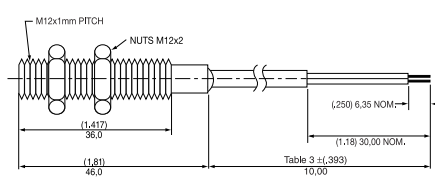
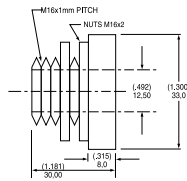
Benefits

- 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 Contact Type			Normally Open	Normally Open High Voltage	Change Over	Normally Closed
Switch Type			1	2	3	4
Power	Power	Watt - max.	10	10	5	5
	Switching	Vdc - max.	200	300	175	175
Voltage	Breakdown	Vdc - min.	250	450	200	200
	Switching	A - max.	0.5	0.5	0.25	0.25
Current	Carry	A - max.	1.2	1.5	1.5	1.5
	Contact, Initial	Ω - max.	0.2	0.2	0.2	0.2
Resistance	Insulation	Ω - min.	10 ¹⁰	10 ¹⁰	10 ⁹	10 ⁹
	Contact	pF - typ.	0.3	0.2	0.3	0.3
Capacitance	Operating	°C	-40 to +85	-20 to +85	-40 to +85	-40 to +85
	Storage	°C	-65 to +85	-65 to +85	-65 to +85	-65 to +85
Temperature	Operate	ms - max.	1.0	1.0	3.0	3.0
	Release	ms - max.	1.0	1.0	3.0	3.0
Time	Shock	11ms 1/2 sine	100	100	50	50
	Vibration	50-2000 Hz	30	30	30	30

CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specification

TABLE 2 Sensitivity Options:- Activate Distances are approximate using Hamlin 59075 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
2 High Voltage	25.0	21.0	22-28	19.0	27-33	17.5	
3 Change Over	15-20	(.906)	20-25	(.787)	25-30	(.709)	
4 Normally Closed	23.0	20.0	18.0				

TABLE 3 Cable Type:- BS 6500 3A 16/0.2 PVC DOUBLE INSULATED		TABLE 4 Termination Options:-	
Standard Lengths		SELECT OPTION	DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)
SELECT OPTION	CABLE LENGTH (in) mm		
01	(3.94) 100	A or F	Tinned or untinned leads
02	(11.81) 300		
03	(19.69) 500		
04	(29.53) 750		
05	(39.37) 1000	C	6.35mm fastons

ORDERING INFORMATION

N.B. 59075 actuator sold separately

59075 - X - X - XX - X

Series 59075

Switch Type

Sensitivity

Cable Length

Termination

Table 1

Table 2

Table 3

Table 4

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