

File E61760(N)

59085 Vane Sensor Features and Benefits



Features

- Sensor and magnet contained in single housing
- Sensor operates when ferrous vane passes through slot
- Normally open, normally closed or change over options
- Choice of cable length and connector

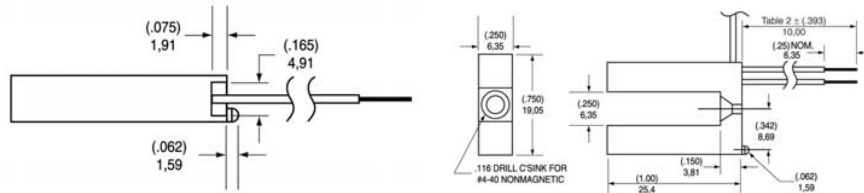
Benefits

- Quick and reliable single screw mounting with location feature
- No standby power requirement
- Hermetically sealed, magnetically operated contacts continue to operate long after optical and other technologies fail due to contamination

Applications

- Position and limit sensing
- Security system switch
- Linear actuators
- Industrial process control
- Shaft rotation sensing

DIMENSIONS (in) mm



SCHEMATICS	Switch Type
	1
	3
	4 & 5

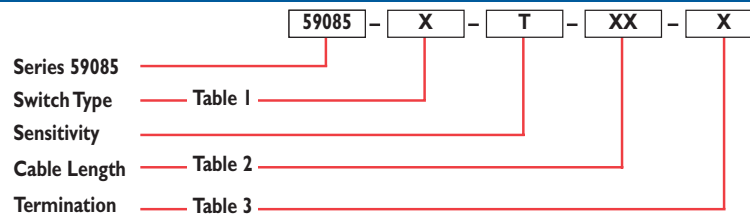
CUSTOMER OPTIONS - Switching Specifications

TABLE I Contact Type			Normally Open	Change Over	Normally Closed	Normally Closed H.V.
Switch Type			1	3	4	5
Voltage	Power	Watt - max.	5	5	10	10
	Switching	Vdc - max.	175	175	200	300
Current	Breakdown	Vdc - min.	200	200	250	450
	Switching	A - max.	0.25	0.25	0.5	0.5
Resistance	Carry	A - max.	1.5	1.5	1.2	1.5
	Contact, Initial	Ω - max.	0.2	0.2	0.2	0.2
Capacitance	Insulation	Ω - min.	10 ⁹	10 ⁹	10 ¹⁰	10 ¹⁰
	Contact	pF - typ.	0.3	0.3	0.3	0.2
Temperature	Operating	°C	-40 to +105	-40 to +105	-40 to +105	-20 to +105
	Storage	°C	-65 to +105	-65 to +105	-65 to +105	-65 to +105
Time	Operate	ms - max.	3.0	3.0	1.0	1.0
	Release	ms - max.	3.0	3.0	1.0	1.0
Shock	11ms 1/2 sine	G - max.	50	50	100	100
Vibration	50-2000 Hz	G - max.	30	30	30	30

CUSTOMER OPTIONS - Cable Length and Termination Specification

TABLE 2		TABLE 3		ACTIVATION										
Cable Type:- 24 AWG 7/32 PVC 105°C ULI1430/UL1569		Termination Options:-												
Standard Lengths		<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> <tr> <td>D</td> <td>AMP MTE 2.54mm pitch</td> </tr> <tr> <td>E</td> <td>JST XHP 2.5mm pitch</td> </tr> </tbody> </table>	SELECT OPTION		DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)	A or F	Tinned or untinned leads	C	6.35mm fastons	D	AMP MTE 2.54mm pitch	E	JST XHP 2.5mm pitch	
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