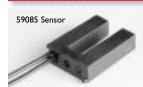




## File E61760(N)

# 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
- Flying leads

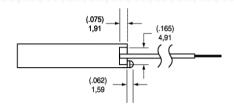
#### **Benefits**

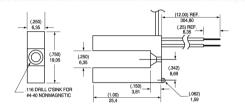
- Quick and relaible single screw mounting with location feature
- No standby power requirement
- Hermetically sealed, magnetically operated contacts continue to operate long after optical and other technologies fail due to contamination

### **Applications**

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

#### **DIMENSIONS**





## **Recommended Activating Positions:**



Sensors		Actuator	Sensor			
Must	Must					
Actuate	Release					
.100 (2,54)	.250 (6,35)	Note I	59085-040	59085-030	59085-010	

Electrical Specifications and Operating Characteristics			Form B	Form C	Form A
			SPST-NC	SPDT-CO	95T-NO
Contact Type			Standar d	Standar d	Standar d
Contact Rating		Watt - max.	10	5	5
Voltage	Switching	Vdc - max.	200	175	175
	Breakdown	Vdc - min.	250	200	200
Current	Switching	A - max.	0.5	0.25	0.25
	Carry	A - max.	1.2	1.5	1.5
Resistance	Contact,Initial	- max.	0.2	0.2	0.2
	Insulation	- min.	1010	10°	109
Capacitance	Contact	p F - typ.	0.3	0.3	0.3
Temperature	Operating	°C	-40 to + 105	-40 to + 105	-40 to + 105
	Storage	°C	-65 to + 105	-65 to + 105	-65 to + 105
Time	Operate	ms - typ.	1.0	1.0	1.0
	Release	ms - typ.	1.0	1.0	1.0
Shock	I Ims I/2 sine	G - max.	100	50	50
Vibration	50-2000 Hz	G - max.	30	330	30

Notes:

- 1. 59085 contains both sensor and magnet. Activation is obtained by inserting an annealed ferrous vane between them. Operate and release positions depend on size and thickness of the vane.
- 2.Flying Leads are 24 AWG 7/32 PVC, 105 deg. C.,UL 1569.Leads are stripped .250 (6,35),untinned.
- $\textbf{3}. \ \textbf{Underwriters Laboratories recognition}. \ \textbf{For details on electrical specifications}, \textbf{contact BREEDElectronics}$

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