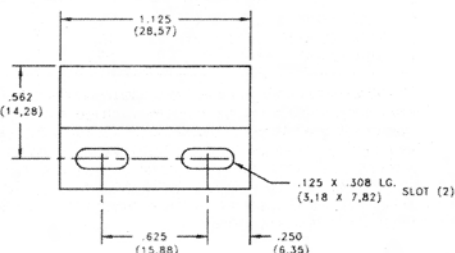
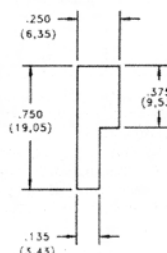
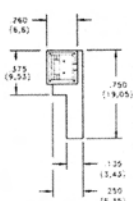
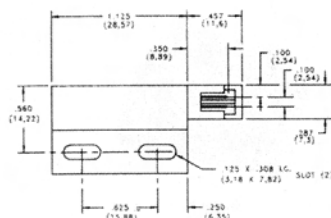
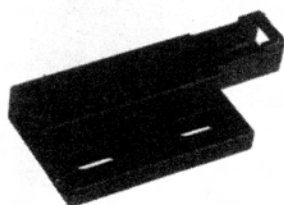


SENSOR 59105 series

ACTUATOR 57105



U.L. File# E61760 (N) ±0.010 (0.25) Tolerance

AVAILABLE CONTACTS

	Form A SPST-NO	Form A - H.V. (2) SPST-NO	Form C SPDT-CO	Form B SPST-NC
Sensor Number	59065-010 59070-010 59105-010	59085-010	59065-020 59070-020 59105-020	59065-030 59070-030 59085-030 59065-040 59070-040 59105-040 59085-040

ELECTRICAL CHARACTERISTICS

Contact Rating (1)		Watts, Maximum	10	5	10	5	5	10
Voltage	Switching	Vdc. Maximum	200	175	300	175	175	200
	Breakdown	Vdc. Minimum	250	200	450	200	200	250
Current	Switching	Amps. Maximum	.500	.250	.500	.250	.250	.500
Resistance	Contact Initial	Ohms, Maximum	200	200	200	200	200	200

OPERATING CHARACTERISTICS

Operate Time	ms. typical	.6	.7	.6	.7	.7	.6
Shock Without False Operation	G's Max., 11ms 1/2 sine wave	100	50	100	50	50	100
Operating Temperature	Degrees Celsius	-40 to +105	-20 to +105	-40 to +105	-40 to +105	-40 to +105	-40 to +105

LOAD/LIFE CHARACTERISTICS (millions of operations)

Load Operations	5Vdc, 10ma	100	50	5Vdc, 10ma	100	50	5Vdc, 10ma	50	100
Load Operations	24Vdc, 250ma	2	.5	24Vdc, 250ma	50	.5	24Vdc, 250ma	.5	2

MUST OPERATE AND RELEASE DISTANCES

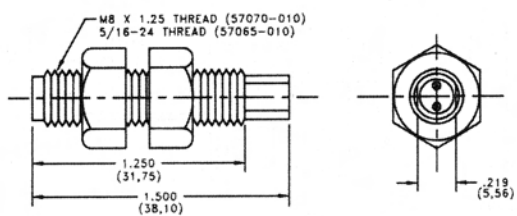
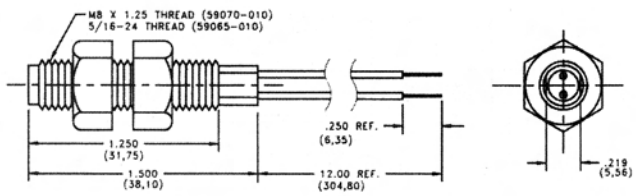
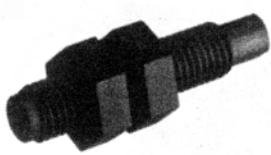
Sensor Type	Actuator	Actuating Position	Must Operate	Must Release	Must Operate	Must Release	Must Operate	Must Release	Must Operate	Must Release
59065 series	57065-000	A	59065-010	59065-020	59065-030	59065-040	.150/(3.81)	.800/(20.32)	.150/(3.81)	.800/(20.32)
59070 series	57070-000	A	59070-010	59070-020	59070-030	59070-040	.150/(3.81)	.800/(20.32)	.150/(3.81)	.800/(20.32)
59085 series	—	B	59085-010	—	59085-030	59085-040	.100/(2.54)	.250/(6.35)	.100/(2.54)	.250/(6.35)
59105 series	57105-000	C	59105-010	59105-020	—	59105-040	.150/(3.81)	.800/(20.32)	.150/(3.81)	.800/(20.32)

(1) Product of switching voltage and current must not exceed wattage rating.

(2) Form A -H.V. represents high voltage.

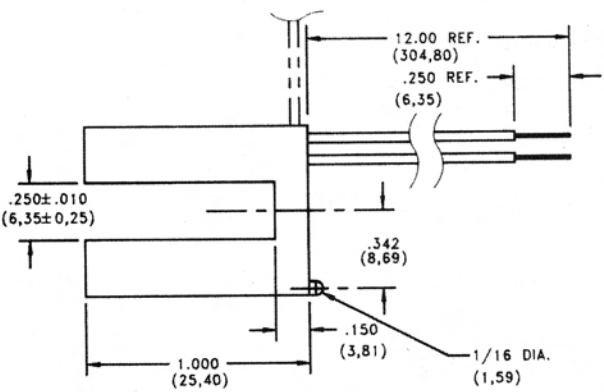
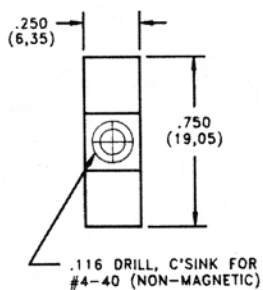
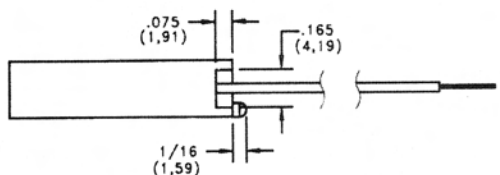
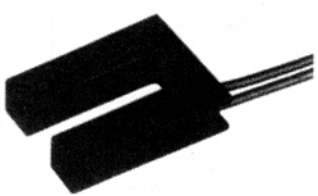
SENSOR
59065/59070 series

ACTUATOR
57065 / 57070



U.L. File# E61760 (N) ±0.010 (0,25) Tolerance

59085 series



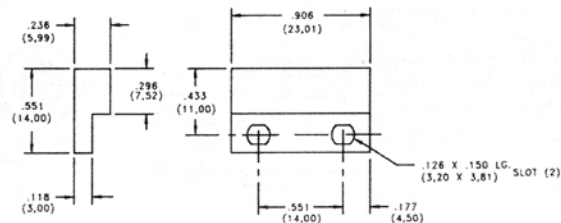
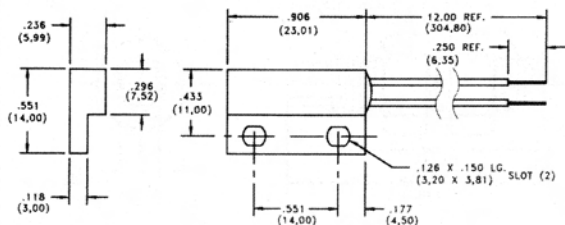
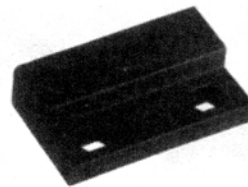
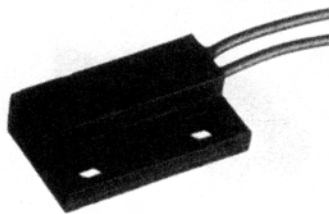
U.L. File# E61760 (N) ±0.010 (0,25) Tolerance

These notes apply only to sensors shown on this and the following page.
FLYING LEADS: 24AWG, 7/32, PVC, 105°C., 300V., UL1430 or UL 1569.
Type -030 flying lead colors: common - white, normally open - black, normally closed - blue.

59065/59070 NOTE: To order without jamnuts:
57065-xxx becomes 57066-xxx
57070-xxx becomes 57071-xxx
59065-xxx becomes 59066-xxx
59070-xxx becomes 59071-xxx
59105 NOTE: 59105 connectors match Molex® SL connector or equivalent. Purchase housing and pins from connector supplier. Assembly required.

SENSOR 59140 series

ACTUATOR 57140



U.L. File# E61760 (N) ±0.010 (0.25) Tolerance

AVAILABLE CONTACTS

Sensor Number

Form A
SPST-NO

59125-010
59135-010
59140-010

Form A - H.V. (2)
SPST-NO

59125-020
59135-020
59140-020

Form C
SPDT-CO

59135-030
59140-030

Form B
SPST-NC

59125-040
59140-040

ELECTRICAL CHARACTERISTICS

Contact Rating (1)		Watts. Maximum	10	10	5	5
Voltage	Switching	Vdc. Maximum	200	300	175	175
	Breakdown	Vdc. Minimum	250	450	200	200
Current	Switching	Amps. Maximum	.500	.500	.250	.250
Resistance	Contact Initial	Ohms. Maximum	.200	.200	.200	.200

OPERATING CHARACTERISTICS

Operate Time	ms. typical	.6	.6	.7	.7
Shock Without False Operation	G's Max., 11ms 1/2 sine wave	100	100	50	50
Operating Temperature	Degrees Celsius	-40 to +105	-20 to +105	-40 to +105	-40 to +105

LOAD/LIFE CHARACTERISTICS (millions of operations)

Load Operations	5Vdc. 10ma	100	100	50	50
Load Operations	24Vdc. 250ma	2	50	.5	.5

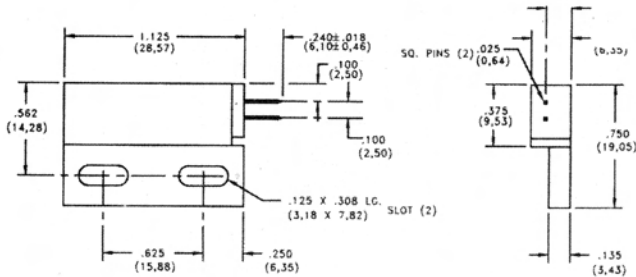
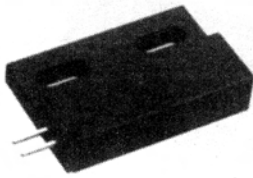
MUST OPERATE AND RELEASE DISTANCES

Sensor Type	Actuator	Actuating Position	Must Operate	Must Release	Must Operate	Must Release	Must Operate	Must Release	Must Operate	Must Release
59125 series	57125-000	C	59125-010		59125-120		59125-040			
			.150/(3.81)	.800/(20.32)	.150/(3.81)	.800/(20.32)			.150/(3.81)	.800/(20.32)
59135 series	57135-000*	C	59135-010		59135-020		59135-030			
			.350/(8.89)	1.150/(29.21)	.350/(8.89)	1.150/(29.21)	.350/(8.89)	1.150/(29.21)		
59140 series	57140-000*	C	59140-010		59140-020		59140-030		59140-040	
			.175/(4.44)	.800/(20.32)	.175/(4.44)	.800/(20.32)	.175/(4.44)	.800/(20.32)	.175/(4.44)	.800/(20.32)

(1) Product of switching voltage and current must not exceed wattage rating.

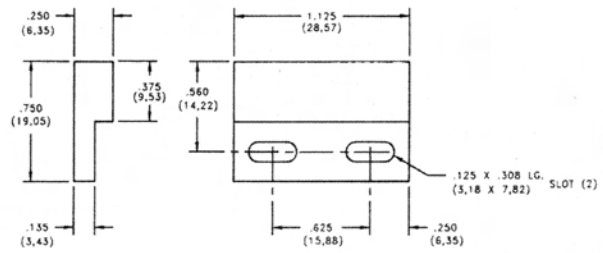
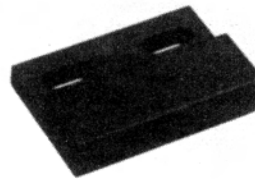
(2) Form A - H.V. represents high voltage.

SENSOR 59125 series

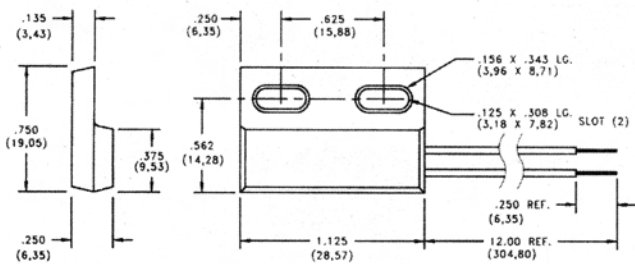
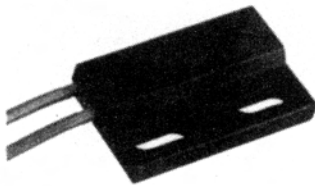


U.L. File# E61760 (N) ±0.010 (0,25) Tolerance

ACTUATOR
57125

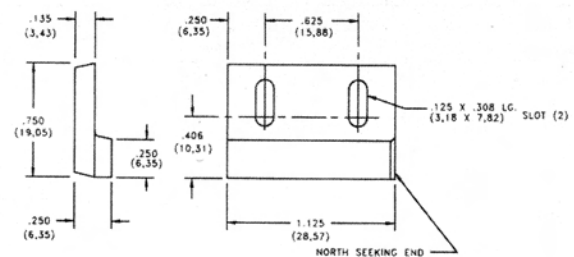
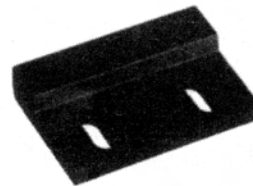


59135 series



U.L. File# E61760 (N) CSA File# LR64660 ±0.010 (0,25) Tolerance

57135



These notes apply only to sensors shown on this and the following page.

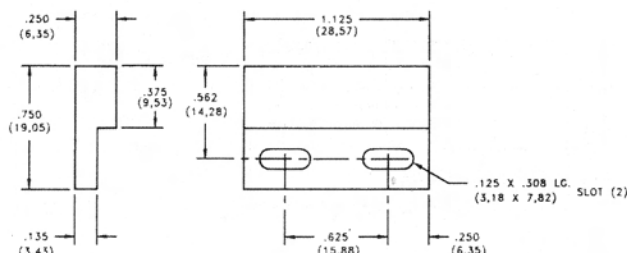
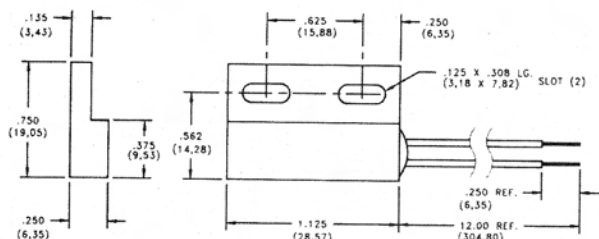
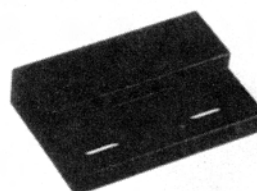
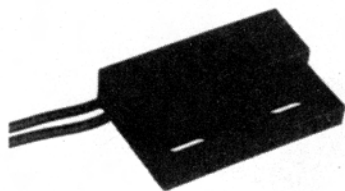
FLYING LEADS: For 59135 are 20AWG, 19x32 teflon insulated, 200°C., 300VDC, UL1180. 59135 flying lead colors: -010 - red; -020 - white; -030 - common - white, normally open - red, normally closed - blue.

FLYING LEADS: For 59140 are 24AWG, 7/32, PVC, 105°C., 300V., UL1430 or UL 1569. 59140 type -030 flying lead colors: common - white, normally open - black, normally closed - blue.

59125 NOTE: 59125 connectors match Molex® SL connector or equivalent. Assembly required.

SENSOR 59150 series

ACTUATOR 57150



U.L. File# E61760 (N) ±0.010 (0,25) Tolerance

AVAILABLE CONTACTS

AVAILABLE CONTACTS	Form A SPST-NO	Form A - H.V. (2) SPST-NO	Form C SPDT-CO	Form B SPST-NC
Sensor Number	59145-010	59145-020	59145-030	59145-040
	59150-010	59150-020	59150-030	59150-040
	59160-010	—	59160-030	—
	59160-011	—	59160-031	—

ELECTRICAL CHARACTERISTICS

Contact Rating (1)		Watts. Maximum	10	10	5	5
Voltage	Switching	Vdc. Maximum	200	300	175	175
	Breakdown	Vdc. Minimum	250	450	200	200
Current	Switching	Amps. Maximum	500	500	250	250
Resistance	Contact Initial	Ohms. Maximum	200	200	200	200

OPERATING CHARACTERISTICS

Operate Time	ms. typical	.6	.6	.7	.7
Shock Without False Operation	G's Max., 11ms 1/2 sine wave	100	100	50	50
Operating Temperature	Degrees Celsius	-40 to +105	-20 to +105	-40 to +105	-40 to +105

LOAD/LIFE CHARACTERISTICS (millions of operations)

Load Operations	5Vdc, 10ma 100	5Vdc, 10ma 100	5Vdc, 10ma 50	5Vdc, 10ma 50
Load Operations	24Vdc, 250ma 2	24Vdc, 250ma 50	24Vdc, 250ma .5	24Vdc, 250ma .5

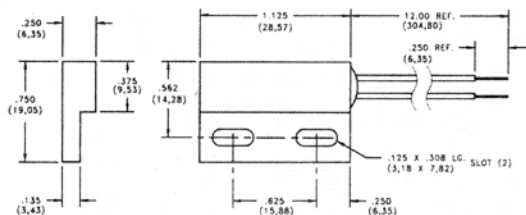
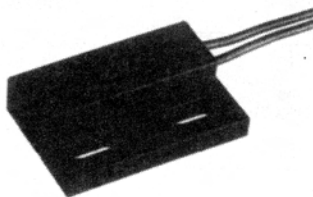
MUST OPERATE AND RELEASE DISTANCES

Sensor Type	Actuator	Actuating Position	Must Operate	Must Release	Must Operate	Must Release	Must Operate	Must Release	Must Operate	Must Release
59145 series	57145-000	C	59145-010		59145-020		59145-030		59145-040	
			225/(5,71)	800/(20,32)	225/(5,71)	800/(20,32)	225/(5,71)	800/(20,32)	225/(5,71)	800/(20,32)
59150 series	57150-000	C	59150-010		59150-020		59150-030		59150-040	
			225/(5,71)	800/(20,32)	225/(5,71)	800/(20,32)	225/(5,71)	800/(20,32)	225/(5,71)	800/(20,32)
59160 series J-Lead	57050-000	D	59160-010		—		59160-030		—	
			.155/(3,93)	.440/(11,17)			.155/(3,93)	.440/(11,17)		
59160 series Gullwing	57050-000	D	59160-011		—		59160-031		—	
			.155/(3,93)	.440/(11,17)			.155/(3,93)	.440/(11,17)		

(1) Product of switching voltage and current must not exceed wattage rating.

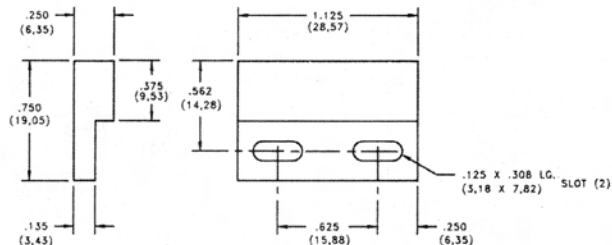
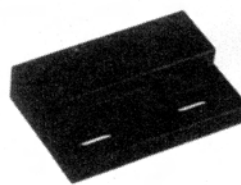
(2) Form A -H.V. represents high voltage.

SENSOR 59145 series

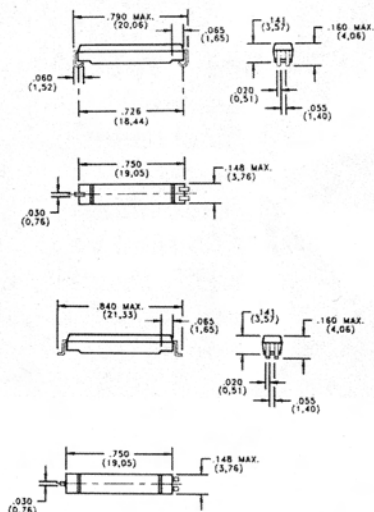


U.L. File# E61760 (N) ±0.010 (0,25) Tolerance

ACTUATOR
57145

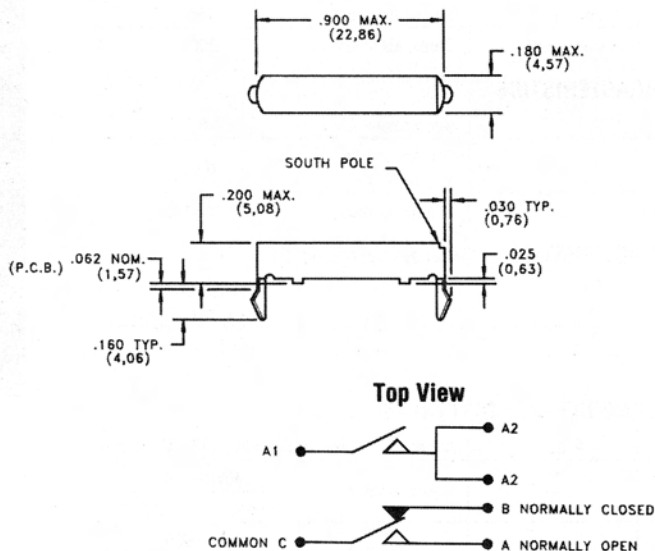


59160 series



U.L. File# E61760 (N) ±0.010 (0,25) Tolerance

57050

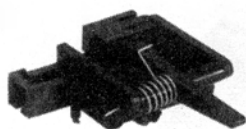


These notes apply only to sensors shown on this and the following page.

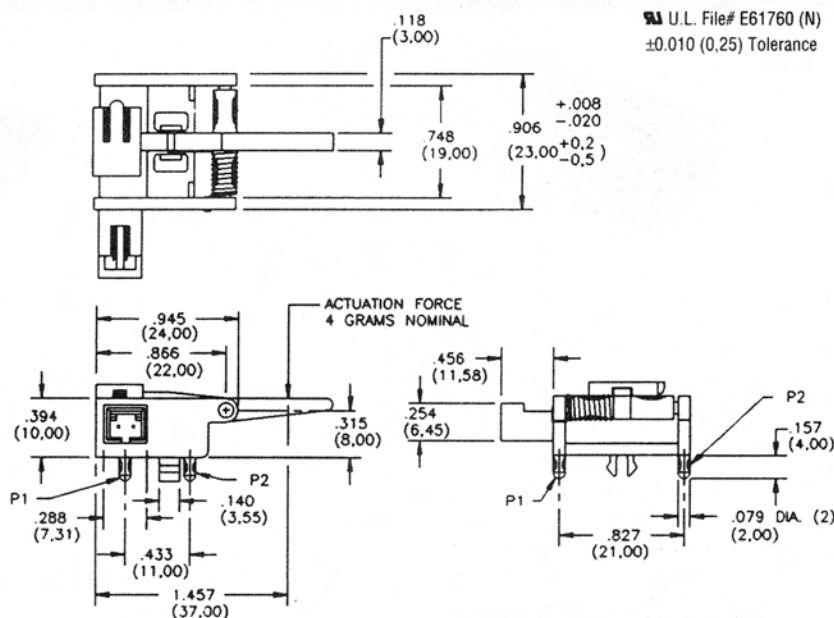
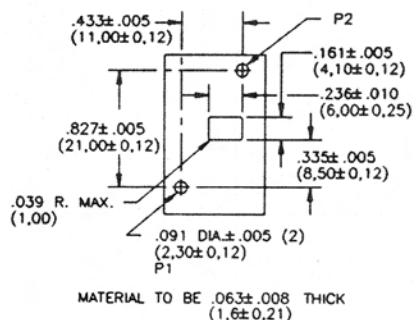
FLYING LEADS: 24AWG, 7/32, PVC, 105°C., 300V., UL1430 or UL1569.
Type -030 flying lead colors: common - white, normally open - black,
normally closed - blue.

59160 NOTE: Surface mountable – 59160 meets all environmental and mounting requirements. Standard packaging is 8mm pitch on 32mm wide tape and reel.

SENSOR 59220-020



U.L. File# E61760 (N)
±0.010 (0,25) Tolerance



AVAILABLE CONTACTS

Sensor Number	Form B SPST-NC
59200-020	
59210-020	
59220-020	

ELECTRICAL CHARACTERISTICS

Contact Rating (1)	Watts. Maximum	10
Voltage	Switching	Vdc. Maximum 200
	Breakdown	Vdc. Minimum 250
Current	Switching	Amps. Maximum .500
Resistance	Contact Initial	Ohms. Maximum .200

OPERATING CHARACTERISTICS

Operate Time	ms. typical	.6
Shock Without False Operation	G's Max., 11ms 1/2 sine wave	100
Operating Temperature	Degrees Celsius	-40 to +105

LOAD/LIFE CHARACTERISTICS (millions of operations) (2)

Load Operations	5Vdc, 10ma	100
Load Operations	24Vdc, 250ma	.2

MUST OPERATE AND RELEASE DISTANCES

Sensor Type	Actuator	Actuating Position	Must Operate	Must Release
59200	—	Arm Rotation	59200-020 < 15 deg.	> 2 deg.
59210	—	Arm Rotation	59210-020 < 15 deg.	> 2 deg.
59220	—	Arm Rotation	59220-020 < 15 deg.	> 2 deg.

(1) Product of switching voltage and current must not exceed wattage rating.

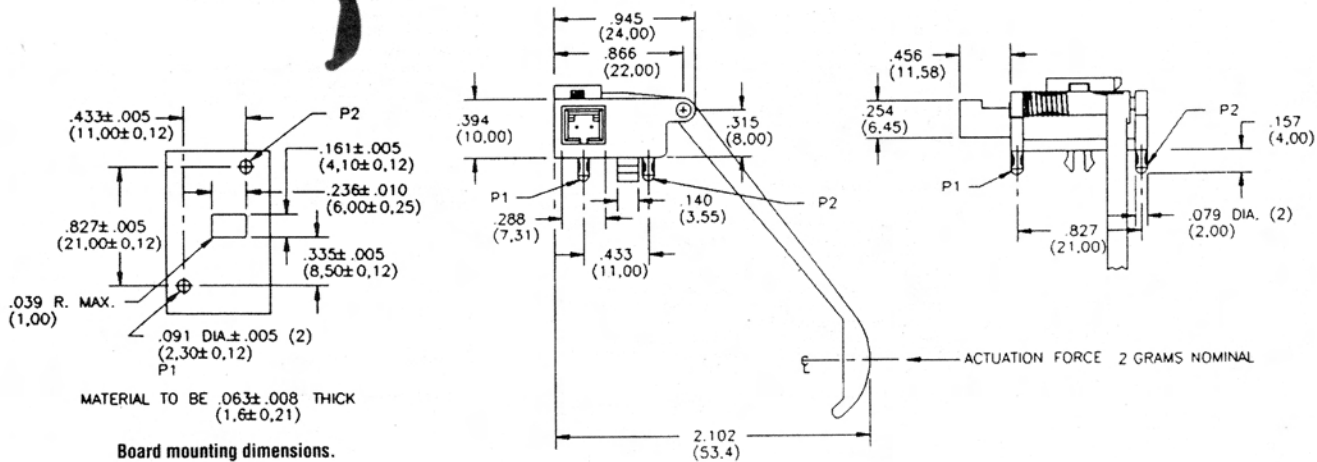
(2) Life may be limited by mechanical wear of arm pivot surfaces.



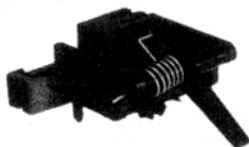
SENSOR
59200-020



U.L. File# E61760 (N)
±0.010 (0,25) Tolerance



59210-020



U.L. File# E61760 (N)
±0.010 (0,25) Tolerance

