AT SERIES | POSITION SWITCHES

SNAP ACTION PRECISION POSITION SWITCHES (RATED 4 AMPS @ 28VDC)

Features

- Qualified per MIL-PRF-8805, Enclosure Symbol 5
- Hermetically sealed with dry nitrogen gas backfill
- Proven snap-action switching, reliable performance and long life
- Excellent shock and vibration resistance
- Switching up to 4 amps
- Optimal for low level circuits
- Temperature range between -275°F and 450°F
- Small, lightweight axis–symmetric design for robustness and reliability
- Single and multiple pole designs available
- Various mounting configurations for custom applications
- Sealed and unsealed plunger options
- Wide range of side plate designs for narrow width applications
- PMA Approvals for various commercial aircraft
- Customer approvals for space and military applications

Introduction

KLIXON® hermetic snap–action position switches are ideal for extremely harsh and demanding environments as found in aircraft, military, aerospace, and aircraft engines applications. KLIXON® precision hermetic position switches have been used for over 55 years in a wide range of applications. Our switches are found on virtually all commercial and military aircraft, as well as various space vehicles and satellites worldwide.

Our design library has over 2,000 switch package designs which allow for "off-the-shelf" solutions to meet most application needs. Custom designs are also available if the customer's application requires different form factors, or actuation methods. We offer a wide choice of precision position switches ideally suited for mission-critical applications that require accurate switching in extreme temperatures, high vibration and shock environments, or in the presence of typical aerospace fluids including but not limited to coolants, oils, hydraulic fluid, fuel, and de-icing fluids.

Applications

AT Series	• Flight Control Actuators • Landing Gear Steering • Landing Gear Down & Locked	• Engine Start Quadrant • Helicopter Litter Door Latch • Helicopter Rotor Brake	• Helicopter Rotor Brake • APU Valve Indication • Throttle Grip Control	• Satellite Applications • Satellite Arm Extended • Parachute Release
3AT Series	• Engine Start Valves • Bleed Air Valves	• Env. Control Systems Valve • Avionics Cooling Valves	• Anti-Icing Valves • Fuel Valves	• Thrust Reverser • Flap Assembly
4AT Series	• Liquid Oxygen Valves • Solar Array Position	• Satellite Antenna Position • Mars Observer	• International Space Station Applications • Lunar Rover Release & Power Up	
10AT Series (MIL-PRF-8805)	• Gearbox • Blade Fold Indication • Landing Gear Indication • Steering Wheel Switch	• Ejection Seat Armed • Cargo Handling Systems • Helicopter Rotor Condition • Helicopter Door Indication	• Antenna Position • Throttle Quadrant • Thrust Reverser • Flight Control Actuators	• EVA Space Suit • Space Capsule Controls • Inertial Upper Stage • Weapons Systems

Nomenclature

Precision hermetic position switches are sometimes referred to as:

- Position switches
- Aircraft switches
- Miniature switches
- Hermetic switches
- Aerospace switches
- Sensitive switches
- Limit switches
- Military switches
- Switches

SPECIFICATIONS

Performance & Actuation Characteristics Chart

		AT		3AT	4AT	10AT
Device Type		Standard		High Temperature	Low Temperature	High Amperage
Maximum Actuating Force (STP)		20 oz		20 oz	28 oz	30 oz
Minimum Release Force (STP)		4 oz		4 oz	1 oz	1 oz
Maximum Pretravel		0.009"		0.009"	0.009"	0.009"
Maximum Movement Differential		0.003"		0.003"	0.003"	0.003"
Minimum Overtravel		0.002"		0.002"	0.002"	0.002"
Overtravel Stop		No		No	No	No
Maximum Force on Actuator		5 lb		5 lb	5 lb	5 lb
Current Ratings in Amps (28VDC)	**Resistance**	3	1	1	3	4
	Inductive	1	½	½	1	1
	Lamp	1	½	½	1	2
Minimum Life @ Rated Load		25K	50K	25K	25K	25K
Minimum Mechanical Life Cycles		100K		100K	50K	50K
Ambient Temperature Range		-65°F to 275°F (-53.8°C to 135°C)		-65°F to 450°F (-53.8°C to 232.2°C)	-275°F to 275°F (-170.5°C to 135°C)	-85°F to 275°F (-65°C to 135°C)
Dielectric Strength Terminal to Case Terminal to Terminal		1000 VRMS 800 VRMS		500 VRMS 500 VRMS	1000 VRMS 800 VRMS	1000 VRMS 800 VRMS
Max Leakage		1 x 10^{-8} Std. cc He/Sec @ 1 atmosphere differential				
Shock Resistance		200G, 6 ms sawtooth				
Vibration Resistance		65G, 10-2000Hz, .5DA or 65GTMS				
Insulation Resistance @ 500VDC		100 Megohms				
Voltage Drop @ 1 amp		0.04		0.12	0.04	0.04
SEAL (MIL-S-8805)		Design Enclosure 5				
Backfill		Dry nitrogen with 10% helium				

NOTE FOR DRAWINGS

1. Because of restricted space we can only show a small percentage of our switch packages and dimensional drawings. Please contact the factory if you do not see the solution you need, or if you require more detailed envelope drawings.
2. Unless otherwise noted, standard leads are AWG #20 per MIL-W-22759/9.
3. All exposed materials on packaged designs are corrosion resistant steel with the exception of the side plates on Style 7 switches which are anodized aluminum alloy.
4. All hardware provided is corrosion resistant steel.

Technical Terms

Electrical Life
The minimum number of cycles allowable for a switch under a specified combination of electrical load, actuation and environmental criteria. Usually specified for the maximum current and temperature rating of the switch.

Mechanical Life
The minimum number of cycles allowable for a switch with no electrical load, and a specified combination of actuation and environmental criteria.

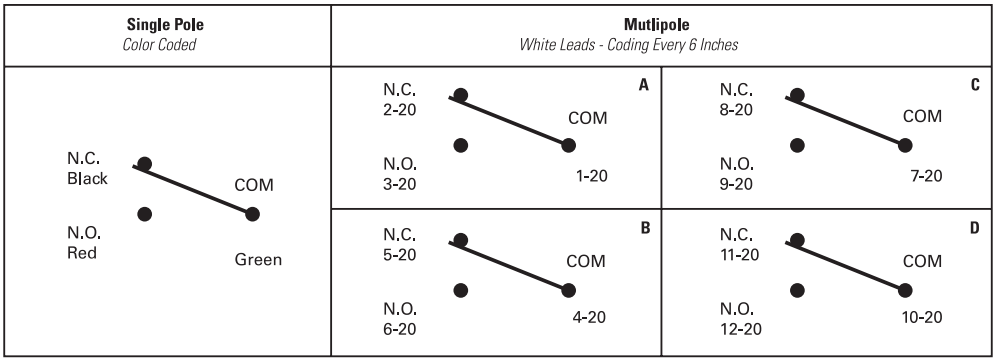
Contact Erosion
A general loss of material from one or both surfaces of a pair of mating contacts. This is as a result of switching electrical loads.

Pole
The number of completely separate circuits contained in a switch. A single pole switch can control only one circuit at a time. A double pole switch can control two independent circuits at the same time.

Throw
The number of circuits that each individual pole of a switch can control. The number of throws is completely independent of the number of poles.

Contact Resistance
The resistance offered to flow of current during its passage between electrical contacts. For practical reasons, lead and terminal resistance may be included in the actual measurement, as well as the contact resistance proper.

Termination Leads or Connectors
Sensata uses 20 gauge wire per MIL-W-22759 as shown below. Alternative gauges, MIL specs and color coding schemes are available upon request. Sensata will also provide switches with connectors to meet customer application needs.



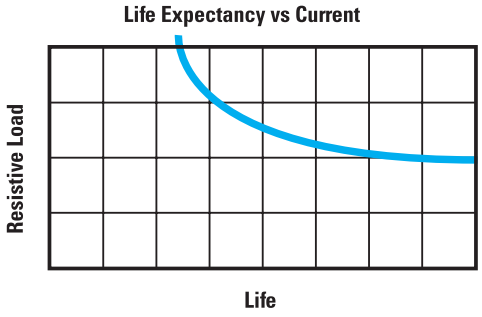
Terminal Indentification
Red = Normally Open
Green = Common
Black = Normally Closed

Wire Leads
AWG 20 MIL-W-22759/9

NOTE:
Diagrams show circuits when actuator is in free position.

Dielectric Withstanding Voltage *
The maximum voltage that a switch can withstand between specified points without leakage current exceeding a specified value.

Insulation Resistance *
The resistance offered by the insulating members of a component part to a direct voltage tending to produce a leakage current through or on the surface of these members. Insulation resistance should not be considered the equivalent of dielectric withstanding voltage.



Loads
Three types of loads associated with electrical switches are: resistive, inductive and lamp. Of concern when discussing loads are their effect on the switch contacts.

Resistive
Purely resistive loads are the easiest to switch. Contact life is maximized when switching purely resistive loads because contact erosion is minimized.

Inductive
Inductive loads result in the most contact erosion. This is due to the tendency of the current to continue traveling across the contact while opening, causing arcing.

* *Insulation resistance measurements should not be considered to be equivalent to dielectric withstand voltage tests. A clear, dry insulation may have a high insulation resistance and yet possess a mechanical fault that would cause failure in the dielectric withstand voltage test. Conversely, a dirty, deteriorated insulation with a low insulation resistance might not break down under a high potential of a DWV test.*

Technical Terms (cont.)

Lamp
In-rush current is the condition that result in the lamp load rating. The resistance rating of a lamp is normally specified when the lamp is hot. However, when the lamp is cold the resistance is low. This in-rush current can be 10 times the normal current, resulting in welding of the contacts.

Low Level Circuit
Low level circuits are classified in MIL-8805 as those with resistive loads less than 10mA at 30mV. The use of gold plated contacts and the hermetic enclosure of the switch contacts afford an ideal environment for switching low level loads.

Pretravel
The distance the button moves from the free position to the actuation point.

Free Position
The position of the button when there is no external force other than gravity applied to it.

Actuation Point
The position of the button at which the movable contact snaps from the normally closed contact position to the normally open contact position.

Release Position
The position of the button at which the movable contact snaps from the normally open contact position to the normally closed contact position.

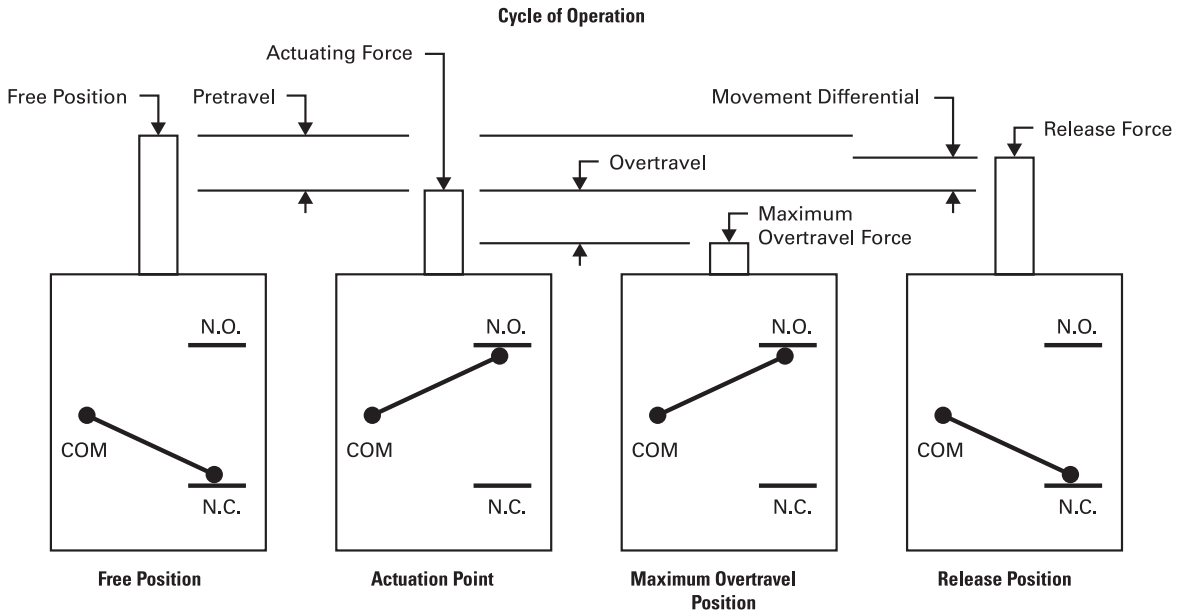
Maximum Overtravel Position
The position of the button when the positive overtravel stop is reached. Further overtravel would damage the switch.

Actuation Force
The force which must be applied to the button to cause the movable contact to snap from the normally closed contact position to the normally open contact position.

Release Force
The level to which the force on the button must be reduced to allow the contacts to snap from the normally open position to the normally closed contact position.

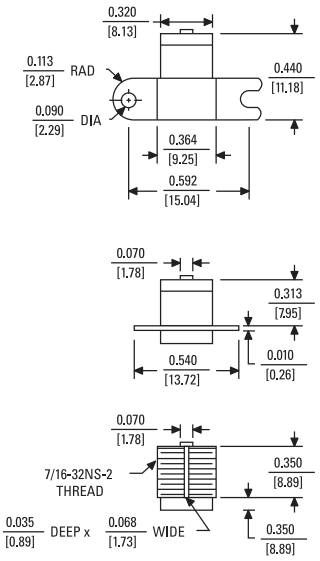
Overtravel
The distance that the button can travel beyond the actuation point.

Movement Differential
The distance the button moves from the actuation point to the release point.



DIMENSIONS AND ORDERING OPTIONS

All dimensions are in millimeters.



BASIC "AT", BRACKET/FLANGE/THREADS, 1 POLE

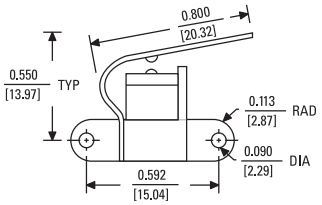
3AT47 – 1 3 – 6

	Basic Switch & Actuator/Body Style			
Bracket	AT373	3AT46	4AT48	10AT15
Flange	AT104	3AT47	4AT49	10AT124
Threads	AT362	3AT48	4AT64	10AT17
	std	*hi temp*	*low temp*	*hi amp*
Actuating Force (max)	20 oz	20 oz	28 oz	30 oz
Release Force (max)	1 oz	1 oz	1 oz	4 oz
Pretravel (max)		.009" (0.23mm)		
Movement Diff. (max)	.003" (0.08mm)			.005" (0.13mm)
Overtravel (min)	.003" (0.38mm)			
Positive Overtravel Stop	No	No	No	No
Max. Force on Actuator	5 lb	5 lb	5 lb	5 lb
approx. Weight (no leads)	0.15 oz	0.15 oz	0.15 oz	0.15 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Ons (0.104 [2.64] MAX)
2	Parallel Leads (0.350 [8.89] MAX, 0.385 [9.78] MAX)
3	90° Leads (0.350 [8.89] MAX, 0.300 [7.62] MAX)

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)



BASIC "AT", RIGHT HAND ACTUATOR, 1 POLE

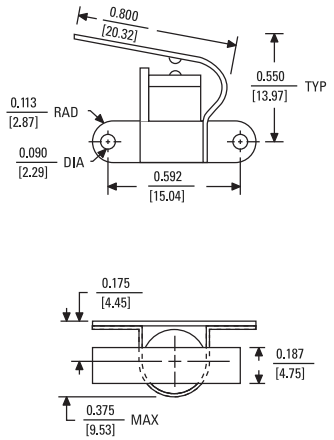
AT289 – 2 2 – 5

	Basic Switch & Actuator/Body Style			
	AT289	3AT40	4AT43	10AT27
	std	*hi temp*	*low temp*	*hi amp*
Actuating Force (max)	24 oz	24 oz	35 oz	35 oz
Release Force (max)	1 oz	1 oz	1 oz	4 oz
Pretravel (max)	.250" (6.35mm)			
Movement Diff. (max)	.050" (1.27mm)			
Overtravel (min)	.015" (0.38mm)			
Positive Overtravel Stop	Yes	Yes	Yes	Yes
Max. Force on Actuator	5 lb	5 lb	5 lb	5 lb
approx. Weight (no leads)	0.18 oz	0.18 oz	0.18 oz	0.18 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Ons (0.104 [2.64] MAX)
2	Parallel Leads (0.350 [8.89] MAX, 0.385 [9.78] MAX)
3	90° Leads (0.350 [8.89] MAX, 0.300 [7.62] MAX)

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)



BASIC "AT", LEFT HAND ACTUATOR, 1 POLE

AT290 – 2 2 – 4

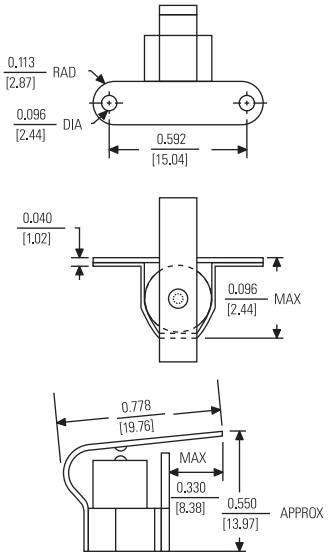
	Basic Switch & Actuator/Body Style			
	AT290	3AT41	4AT44	10AT28
	std	*hi temp*	*low temp*	*hi amp*
Actuating Force (max)	24 oz	24 oz	35 oz	35 oz
Release Force (max)	1 oz	1 oz	1 oz	4 oz
Pretravel (max)	.250" (6.35mm)			
Movement Diff. (max)	.050" (1.27mm)			
Overtravel (min)	.015" (0.38mm)			
Positive Overtravel Stop	Yes	Yes	Yes	Yes
Max. Force on Actuator	5 lb	5 lb	5 lb	5 lb
approx. Weight (no leads)	0.18 oz	0.18 oz	0.18 oz	0.18 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Ons (0.104 [2.64] MAX)
2	Parallel Leads (0.350 [8.89] MAX, 0.385 [9.78] MAX)
3	90° Leads (0.350 [8.89] MAX, 0.300 [7.62] MAX)

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

BASIC "AT", CENTRAL ACTUATOR, 1 POLE



3AT53 – 2 1 – 4

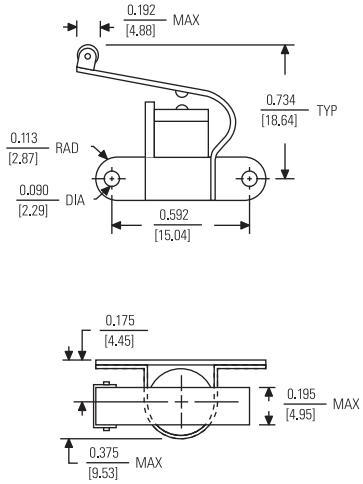
	Basic Switch & Actuator/Body Style			
	AT294	3AT53	4AT50	10AT29
	std	*hi temp*	*low temp*	*hi amp*
Actuating Force (max)	24 oz	24 oz	35 oz	35 oz
Release Force (max)	1 oz	1 oz	1 oz	4 oz
Pretravel (max)	.250" (6.35mm)			
Movement Diff. (max)	.050" (1.27mm)			
Overtravel (min)	.015" (0.38mm)			
Positive Overtravel Stop	Yes	Yes	Yes	Yes
Max. Force on Actuator	5 lb	5 lb	5 lb	5 lb
approx. Weight (no leads)	0.2 oz	0.2 oz	0.2 oz	0.2 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Pins 0.104 [2.64] MAX
2	Parallel Leads 0.350 [8.89] MAX 0.385 [9.78] MAX
3	90° Leads 0.350 [8.89] MAX 0.300 [7.62] MAX

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

BASIC "AT", LEFT HAND ACTUATOR, 1 POLE



AT292 – 1 2 – 5

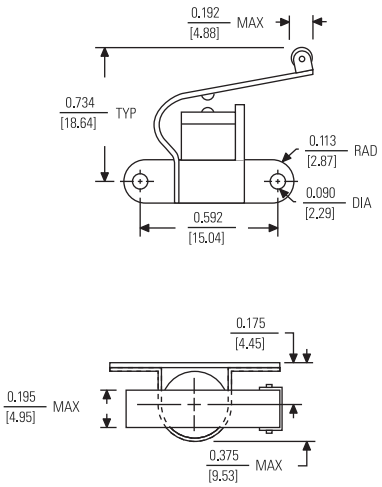
	Basic Switch & Actuator/Body Style			
	AT292	3AT43	4AT46	10AT31
	std	*hi temp*	*low temp*	*hi amp*
Actuating Force (max)	24 oz	24 oz	35 oz	35 oz
Release Force (max)	1 oz	1 oz	1 oz	4 oz
Pretravel (max)	.250" (6.35mm)			
Movement Diff. (max)	.050" (1.27mm)			
Overtravel (min)	.015" (0.38mm)			
Positive Overtravel Stop	Yes	Yes	Yes	Yes
Max. Force on Actuator	5 lb	5 lb	5 lb	5 lb
approx. Weight (no leads)	0.18 oz	0.18 oz	0.18 oz	0.18 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Pins 0.104 [2.64] MAX
2	Parallel Leads 0.350 [8.89] MAX 0.385 [9.78] MAX
3	90° Leads 0.350 [8.89] MAX 0.300 [7.62] MAX

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

BASIC "AT", RIGHT HAND ACTUATOR, 1 POLE



AT291 – 2 2 – 2

	Basic Switch & Actuator/Body Style			
	AT291	3AT42	4AT45	10AT30
	std	*hi temp*	*low temp*	*hi amp*
Actuating Force (max)	24 oz	24 oz	35 oz	35 oz
Release Force (max)	1 oz	1 oz	1 oz	4 oz
Pretravel (max)	.250" (6.35mm)			
Movement Diff. (max)	.050" (1.27mm)			
Overtravel (min)	.015" (0.38mm)			
Positive Overtravel Stop	Yes	Yes	Yes	Yes
Max. Force on Actuator	5 lb	5 lb	5 lb	5 lb
approx. Weight (no leads)	0.2 oz	0.2 oz	0.2 oz	0.2 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Pins 0.104 [2.64] MAX
2	Parallel Leads 0.350 [8.89] MAX 0.385 [9.78] MAX
3	90° Leads 0.350 [8.89] MAX 0.300 [7.62] MAX

Lead Length	
1	6" (153mm)
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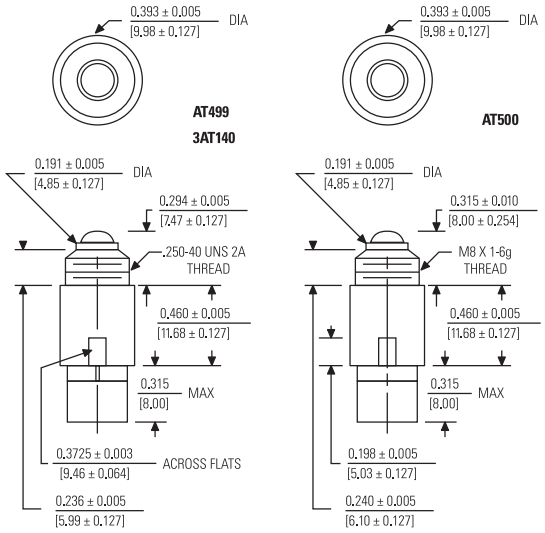

THREADED HEX BODY, FLAT & ROUND PLUNGER, 1 POLE

AT500 – 2 2 –10

	Basic Switch & Actuator/Body Style		
	AT499	3AT140	AT500
	std	*hi temp*	*std*
Actuating Force (max)	20 oz		
Release Force (max)	4 oz		
Pretravel (max)	.010" (.254mm)		
Movement Diff. (max)	.006" (.152mm)		
Overtravel (min)	.040" (1.02mm)		
Positive Overtravel Stop	Yes		
Max. Force on Actuator	10 lbs		
Approx. Weight (no leads)	0.2 oz		

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Pins 0.104 [2.64] MAX
2	Parallel Leads 0.350 [8.89] MAX 0.385 [9.78] MAX
3	90° Leads 0.350 [8.89] MAX 0.300 [7.62] MAX

Lead Length	
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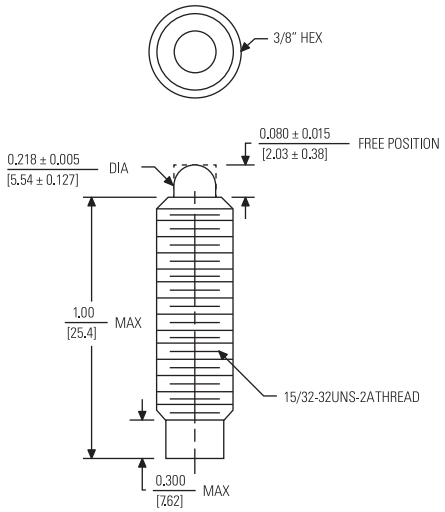

THREADED HEX BODY, FLAT & ROUND PLUNGER, 1 POLE

10AT384 – 2 2 –10

	Basic Switch & Actuator/Body Style		
Flat Plunger	AT414	3AT141	10AT384
Round Plunger	AT415	3AT142	10AT385
	std	*hi temp*	*hi amp*
Actuating Force (max)	20 oz		30 oz
Release Force (max)	1 oz		4 oz
Pretravel (max)	.010" (.254mm)		
Movement Diff. (max)	.005" (.127mm)		
Overtravel (min)	.060" (1.52mm)		
Positive Overtravel Stop	Yes		Yes
Max. Force on Actuator	30 lb		30 lb
Approx. Weight (no leads)	0.7 oz		0.7 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Pins 0.104 [2.64] MAX
2	Parallel Leads 0.350 [8.89] MAX 0.385 [9.78] MAX
3	90° Leads 0.350 [8.89] MAX 0.300 [7.62] MAX

Lead Length	
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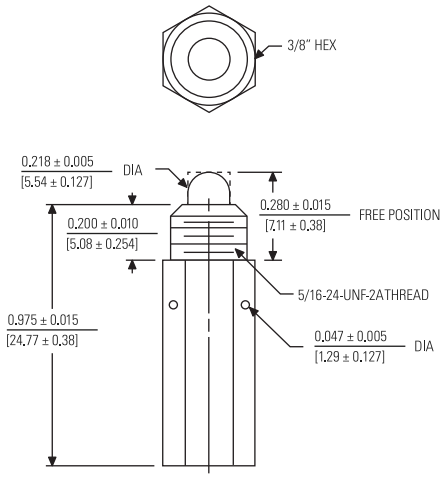

THREADED HEX BODY, FLAT & ROUND PLUNGER, 1 POLE

AT394 – 0 3 – 3

	Basic Switch & Actuator/Body Style		
Flat Plunger	AT393	3AT143	10AT361
Round Plunger	AT394	3AT144	10AT362
	std	*hi temp*	*hi amp*
Actuating Force (max)	20 oz		30 oz
Release Force (max)	1 oz		4 oz
Pretravel (max)	.010" (.254mm)		
Movement Diff. (max)	.005" (.127mm)		
Overtravel (min)	.060" (1.52mm)		
Positive Overtravel Stop	Yes		Yes
Max. Force on Actuator	20 lb		20 lb
Approx. Weight (no leads)	0.5 oz		0.5 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Pins 0.104 [2.64] MAX
2	Parallel Leads 0.350 [8.89] MAX 0.385 [9.78] MAX
3	90° Leads 0.350 [8.89] MAX 0.300 [7.62] MAX

Lead Length	
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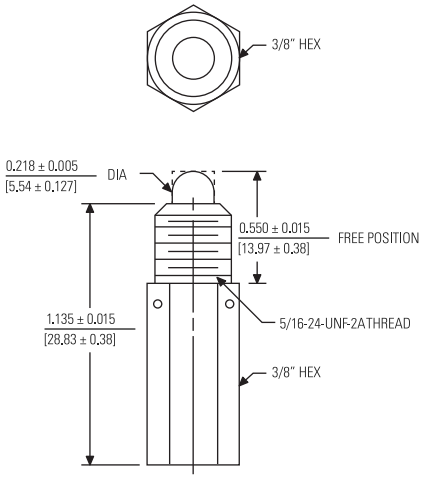
10	72" (1829mm)

THREADED HEX BODY, FLAT & ROUND PLUNGER, 1 POLE



10AT364 – 0 3 – 10

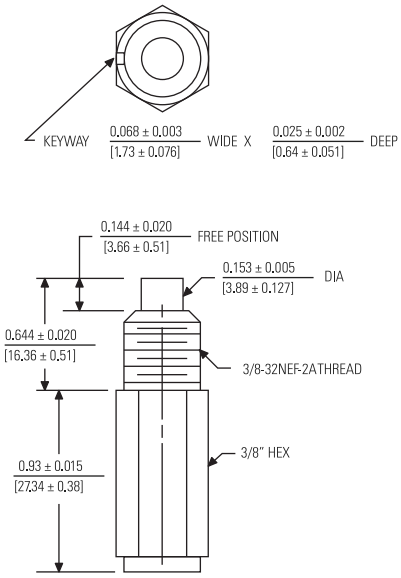
	Basic Switch & Actuator/Body Style		
Flat Plunger	AT395	3AT145	10AT363
Round Plunger	AT396	3AT146	10AT364
	std	*hi temp*	*hi amp*
Actuating Force (max)	20 oz		30 oz
Release Force (max)	1 oz		4 oz
Pretravel (max)	.010" (.254mm)		
Movement Diff. (max)	.005" (.127mm)		
Overtravel (min)	.125" (3.18mm)		
Positive Overtravel Stop	Yes		Yes
Max Force on Actuator	20 lb		20 lb
Approx Weight (no leads)	0.6 oz		0.6 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Pins (0.104 [2.64] MAX)
2	Parallel Leads (0.350 [8.89] MAX, 0.385 [9.78] MAX)
3	90° Leads (0.350 [8.89] MAX, 0.300 [7.62] MAX)

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

THREADED HEX BODY, FLAT PLUNGER, 1 POLE



AT268 – 2 2 – 2

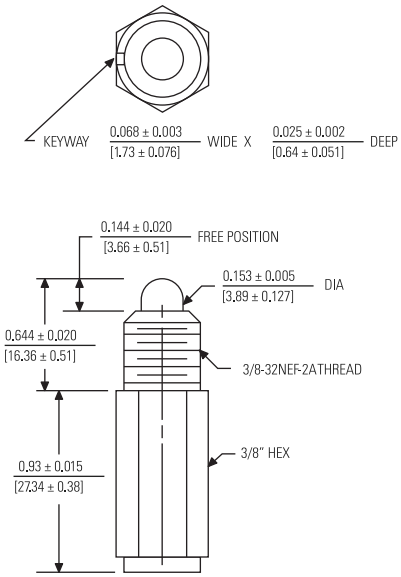
	Basic Switch & Actuator/Body Style		
	AT268	3AT138	10AT7
	std	*hi temp*	*hi amp*
Actuating Force (max)	104 oz		
Release Force (max)	24 oz		
Pluger Seal / MIL-8805	Yes		
Pretravel (max)	.010" (.254mm)		
Movement Diff. (max)	.005" (.127mm)		
Overtravel (min)	.060" (1.52mm)		
Positive Overtravel Stop	Yes		
Max Force on Actuator	20 lb		
Approx Weight (no leads)	0.5 oz		

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Pins (0.104 [2.64] MAX)
2	Parallel Leads (0.350 [8.89] MAX, 0.385 [9.78] MAX)
3	90° Leads (0.350 [8.89] MAX, 0.300 [7.62] MAX)

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

THREADED HEX BODY, ROUND PLUNGER, 1 POLE



AT269 – 2 2 – 2

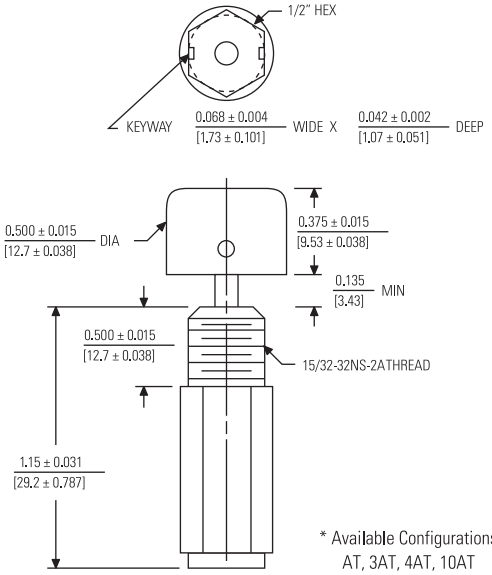
	Basic Switch & Actuator/Body Style		
	AT269	3AT139	10AT76
	std	*hi temp*	*hi amp*
Actuating Force (max)	104 oz		
Release Force (max)	24 oz		
Pluger Seal / MIL-8805	Yes		
Pretravel (max)	.020" (.508mm)		
Movement Diff. (max)	.010" (.254mm)		
Overtravel (min)	.125" (3.18mm)		
Positive Overtravel Stop	Yes		
Max Force on Actuator	30 lb		
Approx Weight (no leads)	1.0 oz		

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Pins (0.104 [2.64] MAX)
2	Parallel Leads (0.350 [8.89] MAX, 0.385 [9.78] MAX)
3	90° Leads (0.350 [8.89] MAX, 0.300 [7.62] MAX)

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

THREADED HEX BODY, PADDLE PLUNGER, 1 POLE



* Available Configurations: AT, 3AT, 4AT, 10AT

AT87 – 0 3 – 9

* 3AT / 4AT versions available

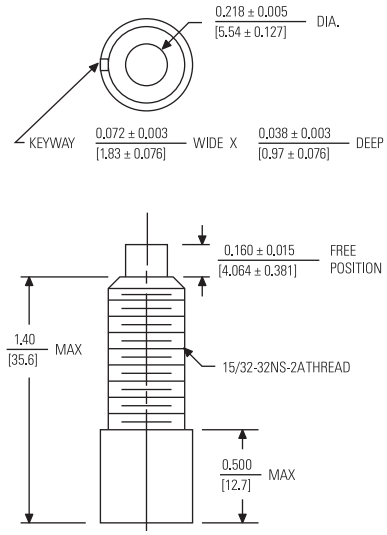
	Basic Switch & Actuator/Body Style	
	AT224	10AT87
	std	*hi amp*
Actuating Force (max)	104 oz	104 oz
Release Force (max)	24 oz	24 oz
Plunger Seal / MIL-S-8805	Yes	Yes
Pretravel (max)	.020" (.508mm)	
Movement Diff. (max)	.010" (.254mm)	
Overtravel (min)	.125" (3.18mm)	
Positive Overtravel Stop	Yes	Yes
Max Force on Actuator	30 lb	30 lb
Approx Weight (no leads)	1.1 oz	1.1 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
1	Solder Pins (0.104 [2.64] MAX)
2	Parallel Leads (0.350 [8.89] MAX, 0.385 [9.78] MAX)
3	90° Leads (0.350 [8.89] MAX, 0.300 [7.62] MAX)

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

THREADED, FLAT PLUNGER, 1 POLE



AT403 – 0 2 – 4

	Basic Switch & Actuator/Body Style			
	AT400	10AT366	AT403	10AT369
	std	*hi amp*	*std*	*hi amp*
Actuating Force (max)	20 oz	30 oz	104 oz	112 oz
Release Force (max)	1 oz	4 oz	24 oz	24 oz
Plunger Seal / MIL-S-8805	No	No	Yes	Yes
Pretravel (max)	.010" (.254mm)		.020" (.51mm)	
Movement Diff. (max)	.005" (.127mm)		.005" (.127mm)	
Overtravel (min)	.125" (3.18mm)		.125" (3.18mm)	
Positive Overtravel Stop	Yes	Yes	Yes	Yes
Max Force on Actuator	30 lb	30 lb	30 lb	30 lb
Approx Weight (no leads)	1.2 oz	1.2 oz	1.2 oz	1.2 oz

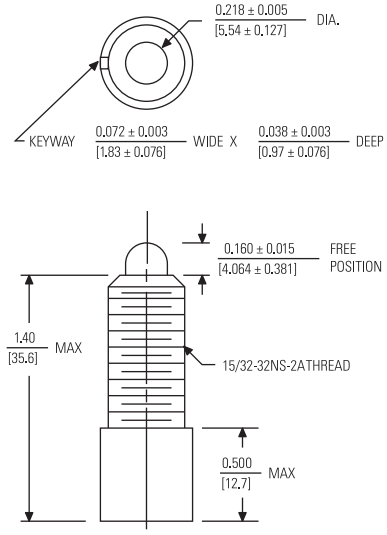
Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
2	Parallel Leads (0.350 [8.89] MAX, 0.385 [9.78] MAX)
3	90° Leads (0.350 [8.89] MAX, 0.300 [7.62] MAX)

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

* 3AT / 4AT versions available

THREADED, ROUND PLUNGER, 1 POLE



AT401 – 2 3 – 1

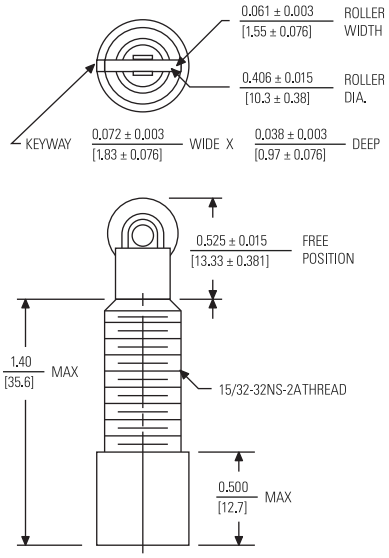
	Basic Switch & Actuator/Body Style			
	AT401	10AT367	AT404	10AT370
	std	*hi amp*	*std*	*hi amp*
Actuating Force (max)	20 oz	30 oz	104 oz	112 oz
Release Force (max)	1 oz	4 oz	24 oz	24 oz
Plunger Seal / MIL-S-8805	No	No	Yes	Yes
Pretravel (max)	.010" (.254mm)		.020" (.51mm)	
Movement Diff. (max)	.005" (.127mm)		.005" (.127mm)	
Overtravel (min)	.125" (3.18mm)		.125" (3.18mm)	
Positive Overtravel Stop	Yes	Yes	Yes	Yes
Max Force on Actuator	30 lb	30 lb	30 lb	30 lb
Approx Weight (no leads)	1.2 oz	1.2 oz	1.2 oz	1.2 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
2	Parallel Leads (0.350 [8.89] MAX, 0.385 [9.78] MAX)
3	90° Leads (0.350 [8.89] MAX, 0.300 [7.62] MAX)

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

* 3AT / 4AT versions available



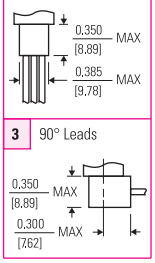
THREADED, ROLLER PLUNGER, 1 POLE

10AT371 – 1 3 – 9

	Basic Switch & Actuator/Body Style			
	AT402	10AT368	AT405	10AT371
	std	*hi amp*	*std*	*hi amp*
Actuating Force (max)	20 oz	30 oz	104 oz	112 oz
Release Force (max)	1 oz	4 oz	24 oz	24 oz
Plunger Seal / MIL-S-8805	No	No	Yes	Yes
Pretravel (max)	.010" (.254mm)		.020" (.51mm)	
Movement Diff. (max)	.005" (.127mm)		.005" (.127mm)	
Overtravel (min)	.125" (3.18mm)		.125" (3.18mm)	
Positive Overtravel Stop	Yes	Yes	Yes	Yes
Max Force on Actuator	30 lb	30 lb	30 lb	30 lb
Approx Weight (no leads)	1.3 oz	1.3 oz	1.3 oz	1.3 oz

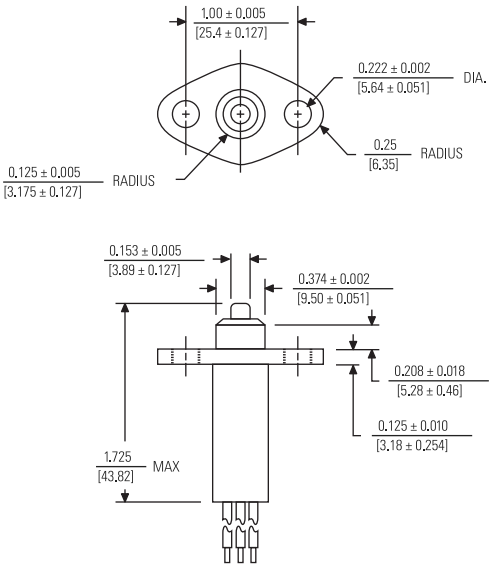
Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
2	Parallel Leads
3	90° Leads



Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

3AT / 4AT versions available



FLANGE MOUNT, SEALED PLUNGER, 1 POLE

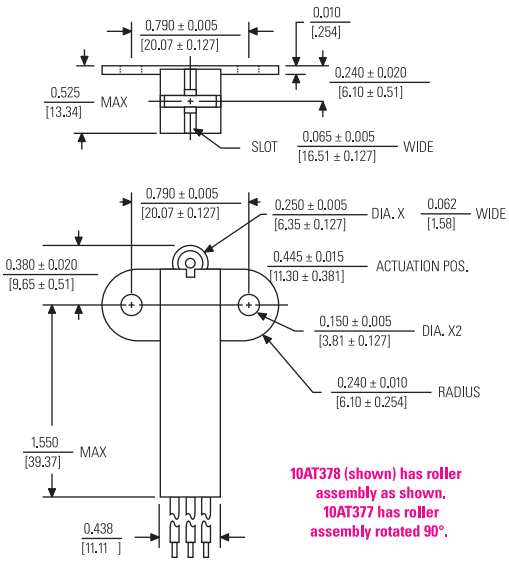
10AT376 – 0 2 – 7

	Basic Switch & Actuator/Body Style
	10AT376
	hi amp
Actuating Force (max)	192 oz
Release Force (max)	112 oz
Plunger Seal / MIL-S-8805	Yes
Pretravel (max)	.040" (1.02mm)
Movement Diff. (max)	.010" (.254mm)
Overtravel (min)	.125" (3.18mm)
Positive Overtravel Stop	Yes
Max Force on Actuator	30 lbs
Approx Weight (no leads)	1.1 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
2	Parallel Leads

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)



10AT378 (shown) has roller assembly as shown. 10AT377 has roller assembly rotated 90°.

FLANGE MOUNT, SEALED ROLLER PLUNGER, 1 POLE

10AT377 – 1 2 – 5

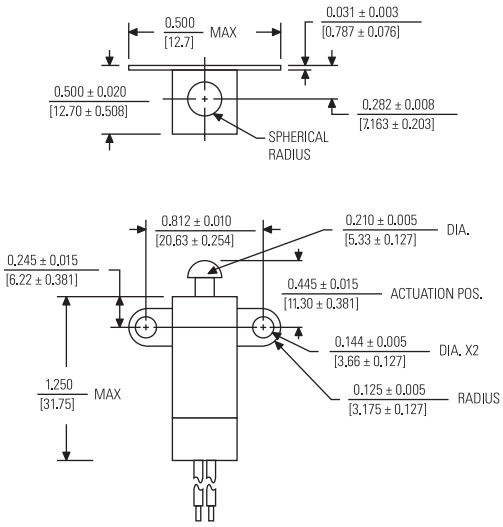
	Basic Switch & Actuator/Body Style	
	10AT377	10AT378
	hi amp	*hi amp*
Actuating Force (max)	30 oz	30 oz
Release Force (max)	16 oz	16 oz
Plunger Seal / MIL-S-8805	Yes	Yes
Pretravel (max)	.040" (1.02mm)	
Movement Diff. (max)	.010" (.254mm)	
Overtravel (min)	.125" (3.18mm)	
Positive Overtravel Stop	Yes	Yes
Max Force on Actuator	30 lbs	30 lbs
Approx Weight (no leads)	1.2 oz	1.2 oz

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
2	Parallel Leads

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

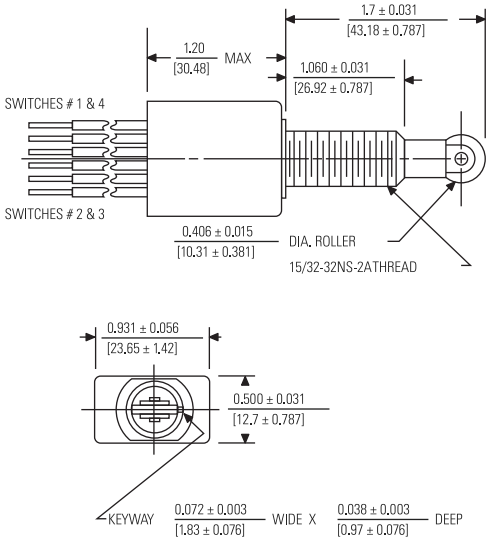
FLANGE MOUNT, UNSEALED ROUND PLUNGER, 1 POLE



10AT379 – 1 2 – 9

	Basic Switch & Actuator/Body Style	Operation	Termination	Lead Length
	10AT379	0 SPDT	2 Parallel Leads	1 6″ (153mm)
	hi amp	1 SPST, N.C.		2 12″ (305mm)
Actuating Force (max)	30 oz	2 SPST, N.O.		3 18″ (458mm)
Release Force (max)	4 oz			4 24″ (610mm)
Plunger Seal / MIL-S-8805	No			5 30″ (762mm)
Pretravel (max)	.010″ (.254mm)			6 36″ (915mm)
Movement Diff. (max)	.010″ (.254mm)			7 42″ (1067mm)
Overtravel (min)	.060″ (1.52mm)			8 48″ (1220mm)
Positive Overtravel Stop	Yes			9 60″ (1524mm)
Max Force on Actuator	80 oz			10 72″ (1829mm)
Approx Weight (no leads)	0.6 oz			

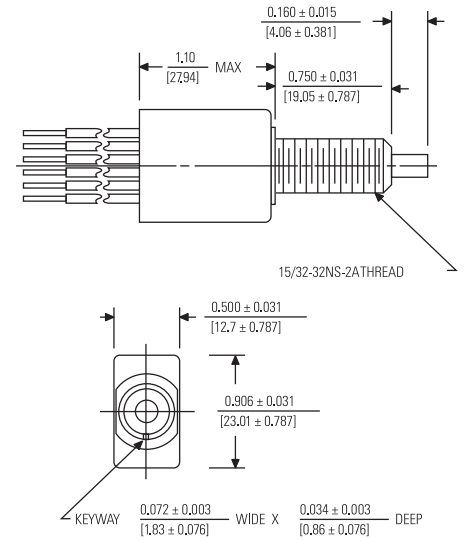
THREADED, SEALED ROLLER PLUNGER, 2 POLE



10AT373 – 3 3 – 1

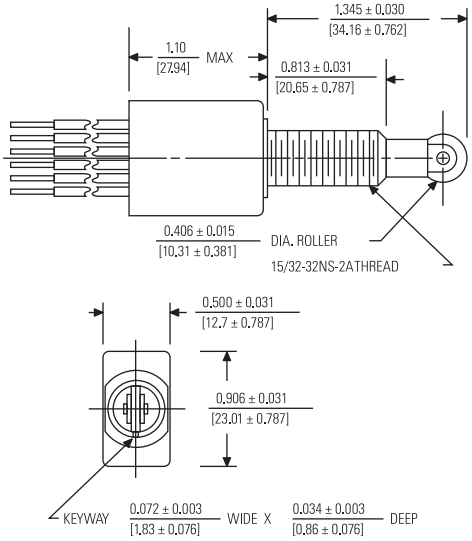
	Basic Switch & Actuator/Body Style		Operation	Termination	Lead Length
	3AT147	10AT373	3 DPDT	2 Parallel Leads	1 6″ (153mm)
	hi temp	*hi amp*	4 DPST, N.C.		2 12″ (305mm)
Actuating Force (max)	160 oz		5 DPST, N.O.		3 18″ (458mm)
Release Force (max)	16 oz		6 DPST, NC/NO		4 24″ (610mm)
Plunger Seal / MIL-S-8805	Yes				5 30″ (762mm)
Pretravel (max)	.030″ (.76mm)				6 36″ (915mm)
Movement Diff. (max)	.020″ (.51mm)				7 42″ (1067mm)
Overtravel (min)	.200″ (5.1mm)				8 48″ (1220mm)
Positive Overtravel Stop	Yes				9 60″ (1524mm)
Max Force on Actuator	30 lb				10 72″ (1829mm)
Approx Weight (no leads)	3.4 oz				

THREADED, SEALED FLAT PLUNGER, 2 POLE



AT391 – 3 2 – 7

	Basic Switch & Actuator/Body Style			Operation	Termination	Lead Length
	AT391	3AT148	10AT358	3 DPDT	2 Parallel Leads	1 6″ (153mm)
	std	*hi temp*	*hi amp*	4 DPST, N.C.		2 12″ (305mm)
Actuating Force (max)	160 oz			5 DPST, N.O.		3 18″ (458mm)
Release Force (max)	16 oz			6 DPST, N.C./N.O.		4 24″ (610mm)
Plunger Seal / MIL-S-8805	Yes					5 30″ (762mm)
Pretravel (max)	.030″ (.76mm)					6 36″ (915mm)
Movement Diff. (max)	.020″ (.51mm)					7 42″ (1067mm)
Overtravel (min)	.125″ (3.18mm)					8 48″ (1220mm)
Positive Overtravel Stop	Yes					9 60″ (1524mm)
Max Force on Actuator	30 lb					10 72″ (1829mm)
Approx Weight (no leads)	1.4 oz					



THREADED, SEALED ROLLER PLUNGER, 2 POLE

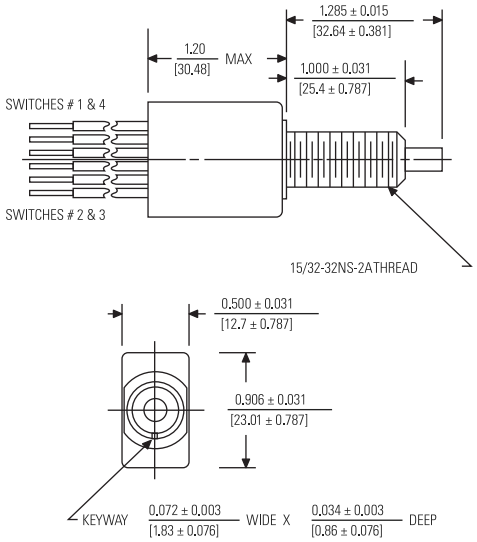
AT392 – 4 3 – 2

	Basic Switch & Actuator/Body Style	
	AT392	**10AT359**
	std	***hi amp***
Actuating Force (max)	160 oz	160 oz
Release Force (max)	16 oz	16 oz
Plunger Seal / MIL-S-8805	Yes	Yes
Pretravel (max)	.030″ (.76mm)	
Movement Diff. (max)	.020″ (.51mm)	
Overtravel (min)	.125″ (3.18mm)	
Positive Overtravel Stop	Yes	Yes
Max Force on Actuator	30 lb	30 lb
Approx Weight (no leads)	1.4 oz	1.4 oz

Operation	
3	DPDT
4	DPST, N.C.
5	DPST, N.O.
6	DPST, N.C./N.O.

Termination	
2	Parallel Leads
3	90° Leads

Lead Length	
1	6″ (153mm)
2	12″ (305mm)
3	18″ (458mm)
4	24″ (610mm)
5	30″ (762mm)
6	36″ (915mm)
7	42″ (1067mm)
8	48″ (1220mm)
9	60″ (1524mm)
10	72″ (1829mm)



THREADED, SEALED FLAT PLUNGER, 2 POLE

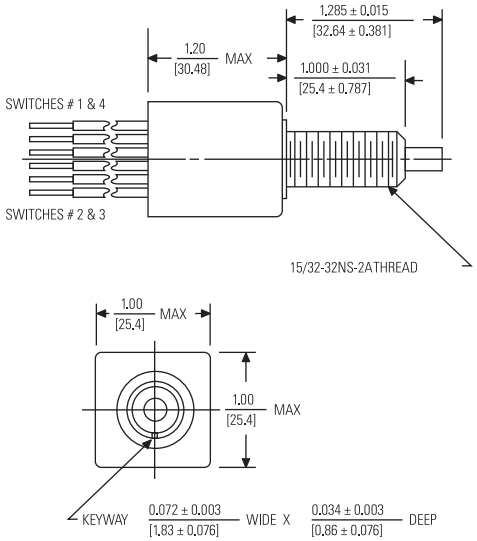
AT406 – 6 2 – 6

	Basic Switch & Actuator/Body Style	
	AT406	**10AT372**
	hi amp	***hi amp***
Actuating Force (max)	160 oz	160 oz
Release Force (max)	16 oz	16 oz
Plunger Seal / MIL-S-8805	Yes	Yes
Pretravel (max)	.030″ (.76mm)	
Movement Diff. (max)	.020″ (.51mm)	
Overtravel (min)	.200″ (5.1mm)	
Positive Overtravel Stop	Yes	Yes
Max Force on Actuator	30 lb	30 lb
Approx Weight (no leads)	1.6 oz	1.6 oz

Operation	
3	DPDT
4	DPST, N.C.
5	DPST, N.O.
6	DPST, N.C./N.O.

Termination	
2	Parallel Leads
3	90° Leads

Lead Length	
1	6″ (153mm)
2	12″ (305mm)
3	18″ (458mm)
4	24″ (610mm)
5	30″ (762mm)
6	36″ (915mm)
7	42″ (1067mm)
8	48″ (1220mm)
9	60″ (1524mm)
10	72″ (1829mm)



THREADED, SEALED FLAT PLUNGER, 3 OR 4 POLE

AT409 – 9 2 – 4

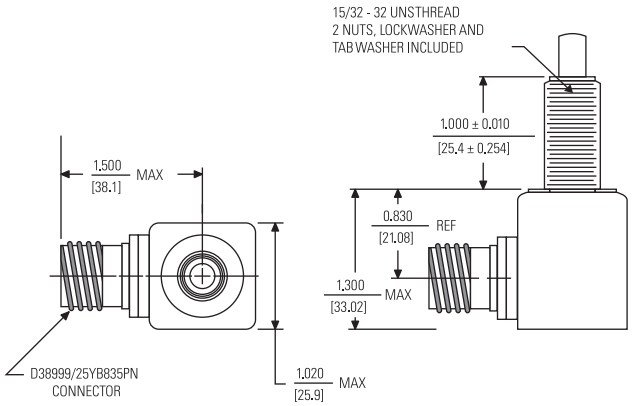
	Basic Switch & Actuator/Body Style	
	AT409	**10AT375**
	hi amp	***hi amp***
Actuating Force (max)	160 oz	160 oz
Release Force (max)	16 oz	16 oz
Plunger Seal / MIL-S-8805	Yes	Yes
Pretravel (max)	.030″ (.76mm)	
Movement Diff. (max)	.020″ (.51mm)	
Overtravel (min)	.200″ (5.1mm)	
Positive Overtravel Stop	Yes	Yes
Max Force on Actuator	30 lb	30 lb
Approx Weight (no leads)	3.4 oz	3.4 oz

Operation	
7	3PDT
8	3PST, N.C.
9	3PST, N.O.
10	4PDT
11	4PST, N.C.
12	4PST, N.O.

Termination	
2	Parallel Leads
3	90° Leads

Lead Length	
1	6″ (153mm)
2	12″ (305mm)
3	18″ (458mm)
4	24″ (610mm)
5	30″ (762mm)
6	36″ (915mm)
7	42″ (1067mm)
8	48″ (1220mm)
9	60″ (1524mm)
10	72″ (1829mm)

PLUNGER SWITCH, 1 POLE



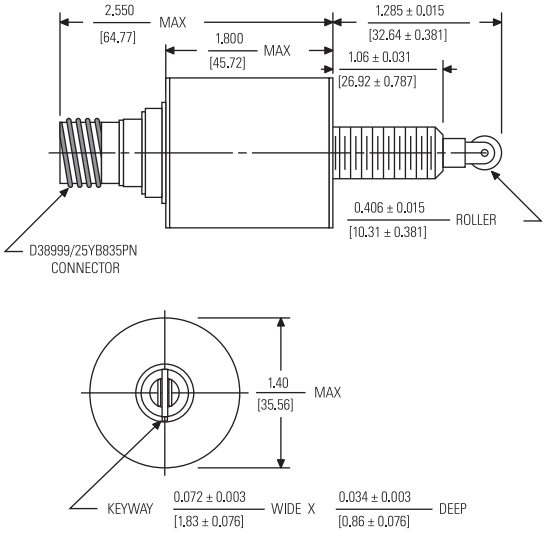
10AT482 – 1

Basic Switch & Actuator/Body Style	Operation
10AT482	1 SPST

	std
Actuating Force (max)	112 oz
Release Force (max)	16 oz
Pretravel (max)	.020" (.508mm)
Movement Diff. (max)	.010" (.254mm)
Overtravel (min)	.125" (3.18mm)
Approx Weight (no leads)	4 oz

* Various connectors available

ROLLER PLUNGER SWITCH, 4 POLE



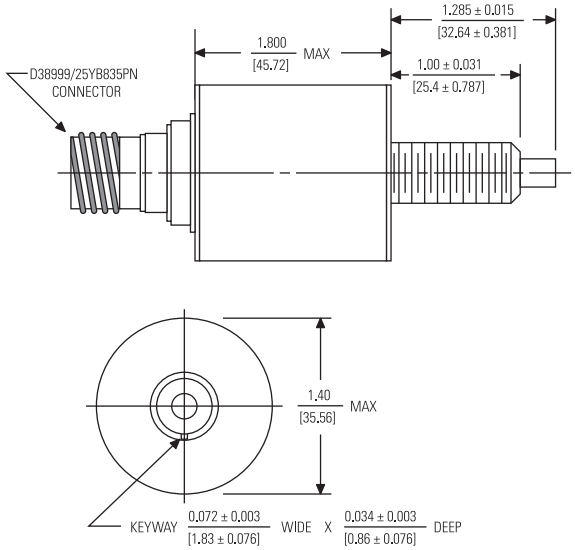
10AT490 – 1

Basic Switch & Actuator/Body Style	Operation
10AT490	1 4PDT

	std
Actuating Force (max)	160 oz
Release Force (max)	16 oz
Pretravel (max)	.030" (.76mm)
Movement Diff. (max)	.020" (.51mm)
Overtravel (min)	.200" (5.08mm)
Max Force on Actuator	30 lbs
Approx Weight (no leads)	5.1 oz

* Various connectors available

FLAT PLUNGER SWITCH, 4 POLE



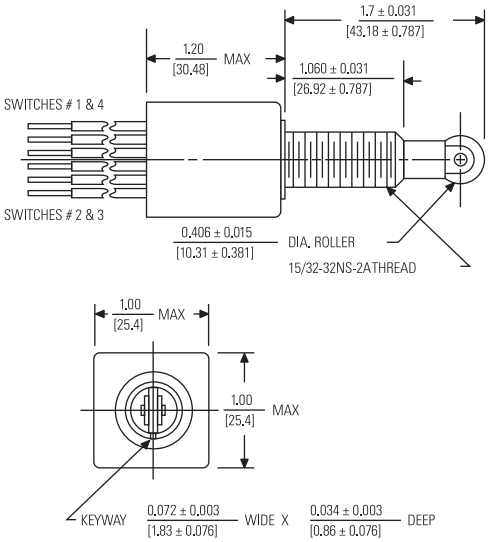
10AT493 – 1

Basic Switch & Actuator/Body Style	Operation
10AT493	1 4PDT

	std
Actuating Force (max)	160 oz
Release Force (max)	16 oz
Pretravel (max)	.030" (.76mm)
Movement Diff. (max)	.020" (.51mm)
Overtravel (min)	.200" (5.08mm)
Max Force on Actuator	30 lbs
Approx Weight (no leads)	5.1 oz

* Various connectors available

THREADED, SEALED ROLLER PLUNGER, 3 OR 4 POLE

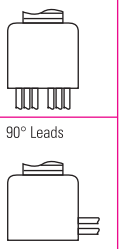


AT408 – 7 3 – 1

	Basic Switch & Actuator/Body Style	
	AT408	10AT374
	hi amp	*hi amp*
Actuating Force (max)	160 oz	160 oz
Release Force (max)	16 oz	16 oz
Plunger Seal / MIL-S-8805	Yes	Yes
Pretravel (max)	.030" (.76mm)	
Movement Diff. (max)	.020" (.51mm)	
Overtravel (min)	.200" (5.1mm)	
Positive Overtravel Stop	Yes	Yes
Max Force on Actuator	30 lb	30 lb
Approx Weight (no leads)	3.4 oz	3.4 oz

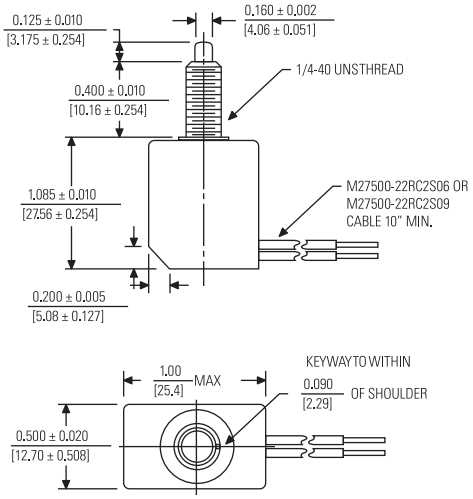
Operation	
7	3PDT
8	3PST, N.C.
9	3PST, N.O.
10	4PDT
11	4PST, N.C.
12	4PST, N.O.

Termination	
2	Parallel Leads
3	90° Leads



Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

SMALLEST HERMETIC 2-POLE, PLUNGER (FLAT) SWITCH



10AT503 – 6 3 – 8

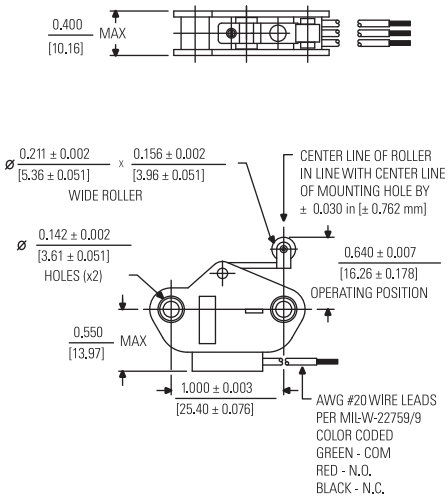
	Basic Switch & Actuator/Body Style	
	3AT149	10AT503
	hi temp	*hi amp*
Actuating Force (max)	64 oz	
Release Force (max)	16 oz	
Plunger Seal / MIL-S-8805	No	
Pretravel (max)	.010" (.254mm)	
Movement Diff. (max)	.010" (.254mm)	
Overtravel (min)	.095" (2.41mm)	
Max Force on Actuator	20 lbs	
Approx Weight (no leads)	1.0 oz	

Operation	
3	DPDT
4	DPST, N.C.
5	DPST, N.O.
6	DPST, N.C / N.O.

Termination	
3	90° Leads

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

SIDE PLATE, RIGHT ARM, 1 POLE



AT355 – 2 3 – 8

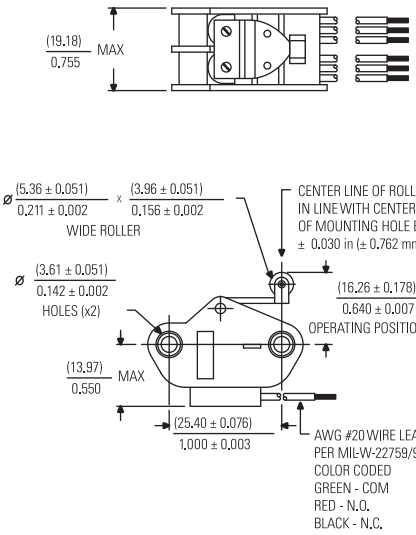
	Basic Switch & Actuator/Body Style		
	AT355	3AT150	10AT313
	std	*hi temp*	*hi amp*
Actuating Force (max)	24 oz		
Release Force (max)	4 oz		
Pretravel (max)	.040" (1.02mm)		
Movement Diff. (max)	.030" (.76mm)		
Overtravel (min)	.125" (3.18mm)		
Positive Overtravel Stop	Yes		
Max Force on Actuator	10 lbs		
Approx Weight (no leads)	0.40 oz		

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

Termination	
3	90° Leads

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

SIDE PLATE, RIGHT ARM, 2 POLE



10AT314 – 3 3 – 4

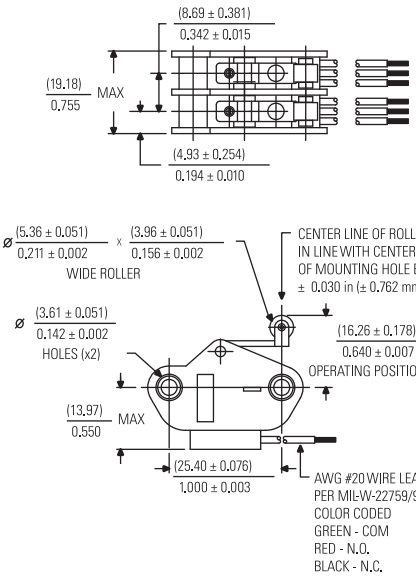
	Basic Switch & Actuator/Body Style	
	AT356	10AT314
	std	*hi amp*
Actuating Force (max)	48 oz	48 oz
Release Force (max)	4 oz	4 oz
Pretravel (max)	.040" (1.02mm)	
Movement Diff. (max)	.040" (1.02mm)	
Overtravel (min)	.125" (3.18mm)	
Positive Overtravel Stop	Yes	Yes
Max Force on Actuator	10 lbs	10 lbs
Approx Weight (no leads)	0.70 oz	0.70 oz

Operation	
3	DPDT
4	DPST, N.C.
5	DPST, N.O.
6	DPST, N.C / N.O.

Termination	
3	90° Leads

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

SIDE PLATE, RIGHT ARM, 2 POLE



10AT315 – 5 3 – 5

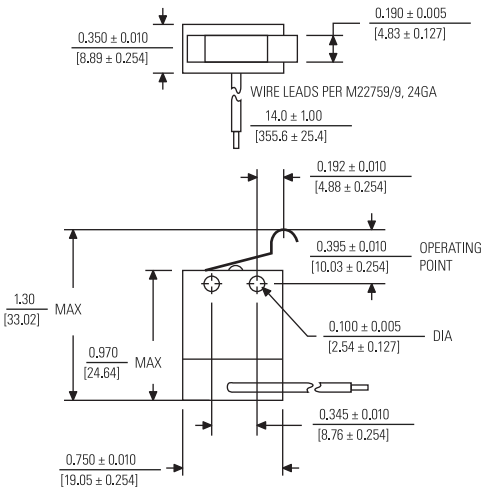
	Basic Switch & Actuator/Body Style	
	AT357	10AT315
	std	*hi amp*
Actuating Force (max)	24 oz	24 oz
Release Force (max)	4 oz	4 oz
Pretravel (max)	.040" (1.02mm)	
Movement Diff. (max)	.030" (.76mm)	
Overtravel (min)	.125" (3.18mm)	
Positive Overtravel Stop	Yes	Yes
Max Force on Actuator	10 lbs	10 lbs
Approx Weight (no leads)	0.80 oz	0.80 oz

Operation	
3	DPDT
4	DPST, N.C.
5	DPST, N.O.
6	DPST, N.C / N.O.

Termination	
3	90° Leads

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

LEAF SPRING SWITCH, 1 POLE

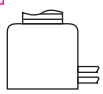


10AT505 – 0 3 – 1

	Basic Switch & Actuator/Body Style	
	3AT151	10AT505
	hi temp	*hi amp*
Actuating Force (max)	20 oz	
Plunger Seal / MIL-S-8805	Yes	
Pretravel (max)	.035" (.89mm)	
Release Force (max)	4.0 oz	
Movement Diff. (max)	.010" (.254mm)	
Overtravel (min)	.065" (1.65mm)	
Positive Overtravel Stop	Yes	
Max Force on Actuator	5 lb	
Approx Weight (no leads)	0.6 oz	

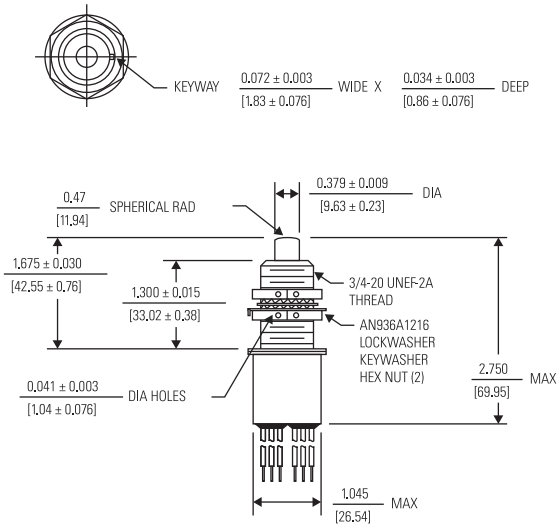
Operation	
0	SPDT

Termination	
3	90° Leads



Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

ROUNDED PLUNGER SWITCH, 2 POLE



3AT152 – 3 2 – 10

Basic Switch & Actuator/Body Style	
3AT152	
High Temp (500°F)	
Actuating Force (max)	128 to 292 oz
Release Force (max)	64 oz
Pretravel (max)	.050" (1.27mm)
Movement Diff. (max)	.020" (.51mm)
Overtravel (min)	.250" (6.35mm)
Max Force on Actuator	12 lbs
Approx Weight (no leads)	5.0 oz

Operation	
3	DPDT
4	DPST, N.C.
5	DPST, N.O.
6	DPST, N.C / N.O.

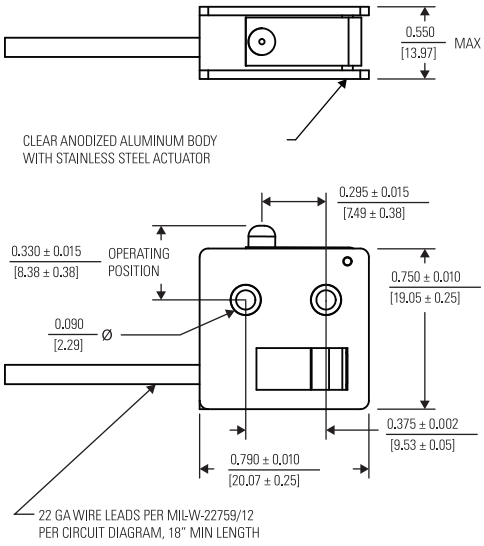
Termination	
2	Parallel Leads

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

Ref: MS24594-1 & M8805/41

* Various connectors available

SIDE PLATE, 1 POLE



10AT511 – 0 3 – 10

Basic Switch & Actuator/Body Style		
3AT137	10AT511	
hi temp	*hi amp*	
Actuating Force (max)	10 oz	
Release Force (max)	1 oz	
Movement Diff. (max)	.010" (.76mm)	
Overtravel (min)	.065" (3.18mm)	

Operation	
0	SPDT
1	SPST, N.C.
2	SPST, N.O.

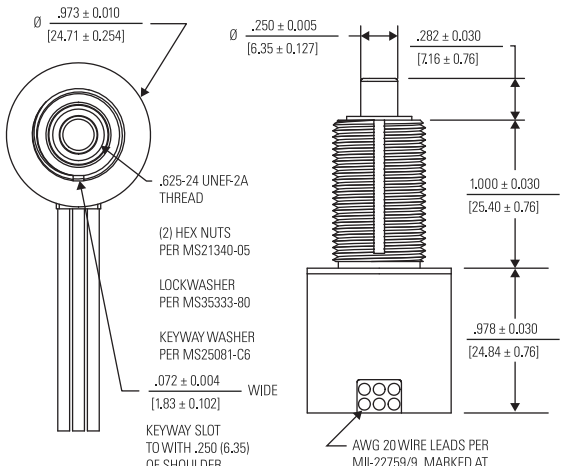
Termination	
3	90° Leads

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

Ref: MS27216 & M8805/8

* Various connectors available

FLAT PLUNGER SWITCH, 2 POLE



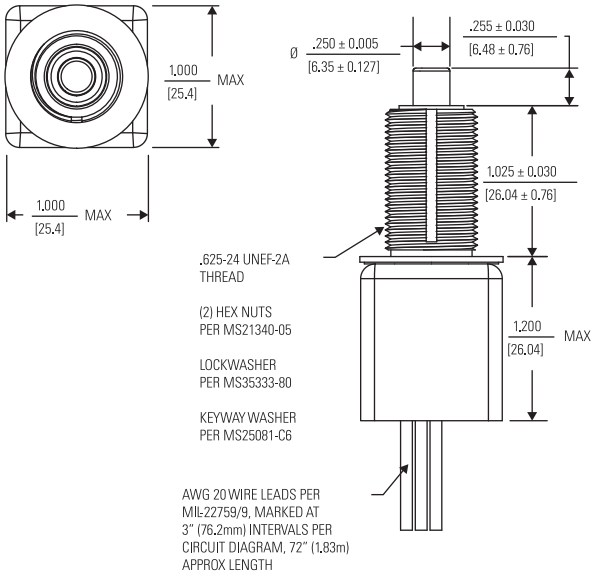
10AT506 – 3 2 – 10

Basic Switch & Actuator/Body Style	
10AT506	
hi temp	
Actuating Force (max)	96 to 192 oz
Release Force (max)	64 oz
Pretravel (max)	.030" (7.62mm)
Movement Diff. (max)	.010" (.254mm)
Overtravel (min)	.250" (6.35mm)
Max Force on Actuator	192 oz
Approx Weight (no leads)	7.4 oz

Operation	
3	DPDT
4	DPST, N.C.
5	DPST, N.O.
6	DPST, N.C / N.O.

Termination	
2	Parallel Leads
3	90° Angle Leads

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)



FLAT PLUNGER SWITCH, 3 or 4 POLE

10AT507 – 3 2 – 10

	Basic Switch & Actuator/Body Style
	10AT507
	hi temp
Actuating Force (max)	96 to 192 oz
Release Force (max)	64 oz
Pretravel (max)	.030" (7.62mm)
Movement Diff. (max)	.010" (.254mm)
Overtravel (min)	.250" (6.35mm)
Max Force on Actuator	192 oz
Approx Weight (no leads)	7.4 oz

Operation	
7	3PDT
8	3PST, N.C.
9	3PST, N.O.
10	4PDT
11	4PST, N.C.
12	4PST, N.O.

Termination	
2	Parallel Leads
3	90° Angle Leads

Lead Length	
1	6" (153mm)
2	12" (305mm)
3	18" (458mm)
4	24" (610mm)
5	30" (762mm)
6	36" (915mm)
7	42" (1067mm)
8	48" (1220mm)
9	60" (1524mm)
10	72" (1829mm)

Ref: M8805/80-04

* Various connectors available

WARNINGS

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
- Verify all connections and replace all covers before turning on power

Failure to follow these instructions will result in death or serious injury

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Rev:04/23/18