Lightweight & Reliable Pressure, Vacuum & Differential Pressure Switches



490 SERIES COMPACT LIGHTWEIGHT PRESSURE SWITCH

Field adjustable pressure ranges up to 3000 PSI
Dual spring design for accuracy and stability
Piston design to allow high proof pressures
Suitable for altitude ranges from -1000 to 50,000 ft



654 SERIES ULTRA LOW PRESSURE, VACUUM & DIFFERENTIAL PRESSURE SWITCH

Low ranges down to 0.03 PSI
Lightweight aluminum construction
Design suitable for both wet and dry media
Fully enclosed design for harsh environments
SPDT and DPDT electrical switch options available



658 SERIES DUAL DIFFERENTIAL PRESSURE SWITCH

Factory set, tamper proof
Lightweight aluminum construction
Dual spring design for accuracy and stability
Fully enclosed design for harsh environments
One piece fully supported diaphragm to achieve both low setpoint and high proof pressure



670 SERIES PRESSURE & VACUUM SWITCH

Factory set, tamper proof

Dual spring design for accuracy and stability

Lightweight aluminum or stainless steel construction

One piece fully supported diaphragm to achieve both low setpoint and high proof pressure

Model for FAA 15 minute flame testing available upon request

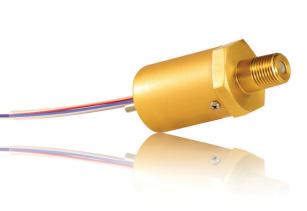


680 SERIES PRESSURE & VACUUM SWITCH WITH INTEGRATED ELECTRICAL CONNECTOR

Lightweight aluminum or stainless steel construction
Fully integrated electrical connector
Double pole, double throw switching option
Excellent operating temperature range from -65 to +400F
Wide selection of pressure ports and configurations for easy installation
Model for FAA 15 minute flame testing available upon request



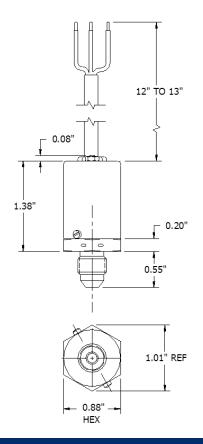




Made in USA

FEATURES / BENEFITS

- Lightweight, aluminum body, pressure switch
- Dual-spring design for accuracy and stability
- Field adjustable
- Suitable for altitude ranges from -1000 ft to 50'000 ft
- Piston design to allow high proof pressure



SPECIFICATIONS					
MECHANICAL		ELECTRICAL			
Standard Tolerance	+/- 10%	Current Rating			
Switch Type	SPDT (single pole / double throw)	Resistive 5 AMP			
Switching Medium	Air or compatible fluids	Operating Voltage			
Mechanical Life	100,000 cycles	30VDC			
Setpoint Ranges	400 to 3000 PSI (27.58–207 bar)				
Proof Pressure	4500 PSI (310 bar)				
Hysteresis	10% to 40% of set point				
Operating Temp.	-65 to 180 DEG F (-54-82°C)				
PHYSICAL					
Case Material	Aluminum, Gold Anodized				
Seal	Varies by option - See part number	system below			
Piston	Stainless Steel				
Pressure Port	Many standard ports - See part number system below				
Electrical Connections	Wire leads or Mate n lok 1-480701				
Weight	Less than 2 ounces				

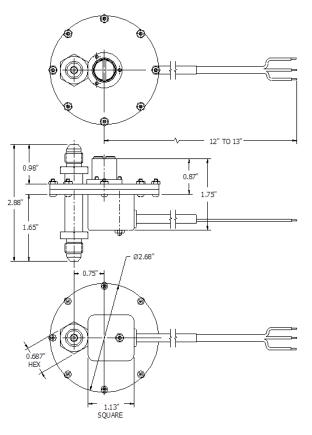
Series	Туре	Housing	Seal	Electrical Output	Electrical Connection	Pressure Port	Set-Point (PSI)
490	P - Pressure	AL - Aluminum	1 - Buna n	SP - SPDT	2 - 12" leads	A - 1/8" MNPT	400 - 3000 PSI
		ST - Stainless Steel	2 - Ethylene Propylene		3 - Amp Mate-N-Lok 1-480700	B - 1/4" MNPT	(27.58–207 bar)
			4 - Neoprene		4 - Amp Mate-N-Lok 1-480701	C - An816-4d	
			5 - Silicone		5 - MS3102-10SI-3P	D - And10050-4	
Determi	ne Your Proc	luct Number:			7 - MS33678-10SI-3P	E - Imperial 1/4" plastic	
490 - P -	xx - x - SP - :	x - x - xxxx				F - MS33656E-6	
High	lighted Options	o Standard				G - MS33649-4	
mym	ngnieu options	Salalluaru				H - MS33656E-2	
						I - MS33656E-4	
						J - MS33656E-5	
						K - MS33656E-3	





FEATURES / BENEFITS

- Lightweight, aluminum construction
- Low pressure ranges
- Fully enclosed design for harsh environments
- Wet / Wet ability
- SPDT and DPDT electrical switch options available



SPECIFICATIONS	5	
MECHANICAL		ELECTRICAL
Standard Tolerance	+/- 10%	Current Rating
Switch Type	SPDT (single pole / double throw) or DPDT (double pole / double throw)	Resistive 5 AMP
Switching Medium	Air or compatible fluids	Operating Voltage
Mechanical Life	100,000 cycles	30VDC
Set-Point Ranges	0.03 to 6 PSI (2.07-414 mbar)	
Proof Pressure	75 PSI (5.2 bar)	
Hysteresis	10% to 50% of set point	
Operating Temp.	-65 TO 350 DEG F (-54–177°C)	
PHYSICAL		
Case Material	Aluminum, Gold anodized	
Seal	Varies by option - See part number	system below
Diaphragm	Mylar	
Pressure Port	Varies by option - See part number	system below
Electrical Connections	Wire leads or Mate n lok 1-480701	
Weight	Less than 6 ounces	

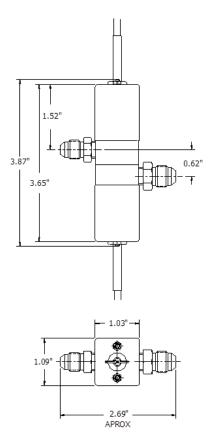
	Series	Туре	Housing	Seal	Electrical Output	Electrical Connection	Pressure Port	Set-Point (PSI)
	654	P - Pressure	AL - Aluminum	1 - Buna n	SP - SPDT	1 - Amp 6-p	A - 1/8" MNPT	0.03-6 PSI
		V - Vacuum		2 - Ethylene Propylene	DP - DPDT	2 - 12" leads	B - 1/4" MNPT	(2.07-414 mbar)
		D - Differential		3 - Mylar		3 - Amp Mate-N-Lok 1-480700	C - An816-4d	
				4 - Neoprene		4 - Amp Mate-N-Lok 1-480701	D - And10050-4	
	Determi	ne Your Prod	luct Number:	5 - Silicone		5 - MS3102-10SI-3P	E - Imperial 1/4" plastic	
	654 - x -	AL - x - xx - x	(- X - XXXX	6 - Stainless Steel		6 - MS3112E10-6P	F - MS33656E-6	
		, , , , , , , , , , , , , , , , , , ,	70001			7 - MS33678-10SI-3P	G - MS33649-4	
L	підііі	ighted Options	Salanuaru				H - MS33656E-2	
							I - MS33656E-4	
							J - MS33656E-5	
							K - MS33656E-3	





FEATURES / BENEFITS

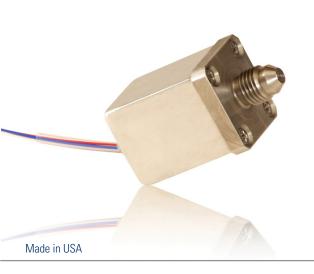
- Lightweight, aluminum construction
- Dual-spring design for accuracy and stability
- One piece fully supported diaphragm to achieve both low setpoints and high proof pressures
- Factory set, tamper proof
- Fully enclosed design for harsh environments



SPECIFICATIONS	S		
MECHANICAL		ELECTRICAL	
Standard Tolerance	+/- 10%	Current Rating	
Switch Type	SPDT (single pole / double throw)	Resistive 5 AMP	
Switching Medium	Air or compatible fluids	Operating Voltage	
Mechanical Life	100,000 cycles	30VDC	
Set-Point Ranges	40 to 200 PSI (2.76–13.8 bar)		
Proof Pressure	1000 PSI (70 bar)		
Hysteresis	5% to 30% of set point		
Operating Temp.	-65 TO 300 DEG F (-54–149°C)		
PHYSICAL			
Case Material	Aluminum, Gold anodized		
Seal	Buna n		
Diaphragm	Silicone		
Pressure Port	Varies by option - See part number system below		
Electrical Connections	Varies by option - See part num	per system below	
Weight	Less than 6 ounces		
Flootrical Output Floot	rical Connection Bro	scure Port Set Point (DSI)	

Series	Туре	Housing	Seal	Electrical Output	Electrical Connection	Pressure Port	Set-Point (PSI)
658	D - Differential	AL - Aluminum	1 - Buna n	SP - SPDT	1 - Amp 6-p	A - 1/8" MNPT	40-200 PSI
			2 - Ethylene Propylene		2 - 12" leads	B - 1/4" MNPT	(2.76–13.8 bar)
			4 - Neoprene 5 - Silicone		3 - Amp Mate-N-Lok 1-480700 4 - Amp Mate-N-Lok 1-480701	C - An816-4d D - And10050-4	
Determi	ne Your Proc	duct Number:	3 - SHICOHE		5 - MS3102-10SI-3P	E - Imperial 1/4" plastic	
658 - D	- AL - x - SP -	Y - Y - YYYY			6 - MS3112E10-6P	F - MS33656E-6	
					7 - MS33678-10SI-3P	G - MS33649-4	
підіі	lighted Option	s Stanuaru				H - MS33656E-2	
						I - MS33656E-4	
						J - MS33656E-5	
						K - MS33656E-3	



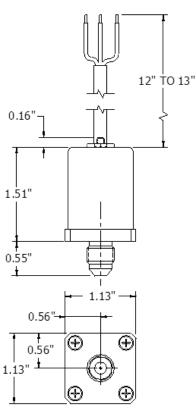


FEATURES / BENEFITS

- Lightweight, aluminum body, pressure/vacuum switch
- · Dual-spring design for accuracy and stability
- One piece fully supported diaphragm to achieve both low setpoints and high proof pressures
- Factory set, tamper proof

SPECIFICATIONS

• Model for FAA 15 minute flame testing available upon request



MECHANICAL		ELECTRICAL
Standard Tolerance	+/- 10%	Current Rating
Switch Type	SPDT (single pole / double throw)	Resistive 5 AMP
Switching Medium	Air or compatible fluids	Operating Voltage
Mechanical Life	100,000 cycles	30VDC
Setpoint Ranges	1.5 to 400 PSI (0.1–27.6 bar)	
Proof Pressure	1000 PSI (69 bar)	
Hysteresis	10% to 40% of set point	
Operating Temp.	-65 to 400 DEG F (-54–204°C)	
PHYSICAL		
Case Material	Aluminum, Gold anodized	
Seal	Varies by option - See part number	system below
Diaphragm	Stainless Steel	
Pressure Port	Many standard ports - See part nu	mber system below

Less than 2.5 ounces

Many standard electrical connections - See part number system below

	Series	Туре	Housing	Seal	Electrical Output	Electrical Connection	Pressure Port	Setpoint (PSI)
	670	P - Pressure	AL - Aluminum	1 - Buna n	SP - SPDT	2 - 12" leads	A - 1/8" MNPT	1.5-400 PSI
		V - Vacuum	ST - Stainless Steel	2 - Ethylene Propylene		3 - Amp Mate-N-Lok 1-480700	B - 1/4" MNPT	(0.1–27.6 bar)
				3 - Mylar		4 - Amp Mate-N-Lok 1-480701	C - An816-4d	
				4 - Neoprene			D - And10050-4	
	Determi	ne Your Prod	duct Number:	5 - Silicone			E - Imperial 1/4" plastic	
	670 - x - 1	xx - x - SP - >	(- X - XXXX	6 - Stainless Steel			F - MS33656E-6	
							G - MS33649-4	
l	Higni	ighted Option	s Standard				H - MS33656E-2	
							I - MS33656E-4	
							J - MS33656E-5	
							K - MS33656E-3	

Electrical Connections

Weight





1.09 CASE 0.67" 1.76" 0.55" 0.56 0.56" 1.13" ± ⊕

FEATURES / BENEFITS

- Lightweight, aluminum body, pressure/vacuum switch
- · Dual-spring design for accuracy and stability
- One piece fully supported diaphragm to achieve both low setpoints and high proof pressures
- Factory set, tamper proof
- Integrated connector
- Model for FAA 15 minute flame testing available upon request

SPECIFICATIONS

MECHANICAL	ELECTRICAL	
Standard Tolerance	+/- 10%	Current Rating
Switch Type	SPDT (single pole / double throw) or DPDT (double pole / double throw)	Resistive 5 AMP
Switching Medium	Air or compatible fluids	Operating Voltage
Mechanical Life	100,000 cycles	30VDC
Set-Point Ranges	1.5 to 400 PSI (0.1–27.6 bar)	
Proof Pressure	1000 PSI (69 bar)	The second secon
Hysteresis	10% to 40% of set point	0
Operating Temp.	-65 to 400 DEG F (-54-204°C)	
PHYSICAL		

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Case Material	Aluminum, Gold Anodized
Seal	Varies by option - See part number system below
Diaphragm	Stainless Steel
Pressure Port	Many standard ports - See part number system below
Electrical Connections	Many standard electrical connections - See part number system below
Weight	Less than 6 ounces

K - MS33656E-3

Series	Туре	Housing	Seal	Electrical Output	Electrical Connection	Pressure Port	Setpoint (PSI)
680	P - Pressure	AL - Aluminum	1 - Buna n	SP - SPDT	5 - MS3102-10SI-3P	A - 1/8" MNPT	1.5-400 PSI
	V - Vacuum	ST - Stainless Steel	2 - Ethylene Propylene	DP - DPDT	6 - MS3112E10-6P	B - 1/4" MNPT	(0.1-27.6 bar)
			3 - Mylar		7 - MS33678-10SI-3P	C - An816-4d	
			4 - Neoprene			D - And10050-4	
Determ	nine Your Pro	duct Number:	5 - Silicone			E - Imperial 1/4" plastic	
680 - x	- xx - x - xx -	Y - Y - YYYY	6 - Stainless Steel			F - MS33656E-6	
						G - MS33649-4	
High	hlighted Option	is Standard				H - MS33656E-2	
						I - MS33656E-4	
						J - MS33656E-5	