ANFIELD
SENSORS INC.

2016 Edition Sept

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ANFIELD SENSORS INC.

SPA / SPF

* UL available for certain models

DESCRIPTION

The SPA is a minature pressure switch with a high quality snap action micro switch. It is suitable for pneumatic, water, and any low pressure hydraulic applications. The switch is field adjustable with an allen screw and now features an optional IP67 rating for any of our flying lead options (CA and CS). Lead free brass is also available for special application requirements.

FEATURES

- Low pressure switch
- Factory set or field adjustable
- Compact size
- Cost effective

APPLICATIONS

- Pneumatic system control
- Low pressure filter monitoring
- Car washes
- Gate control

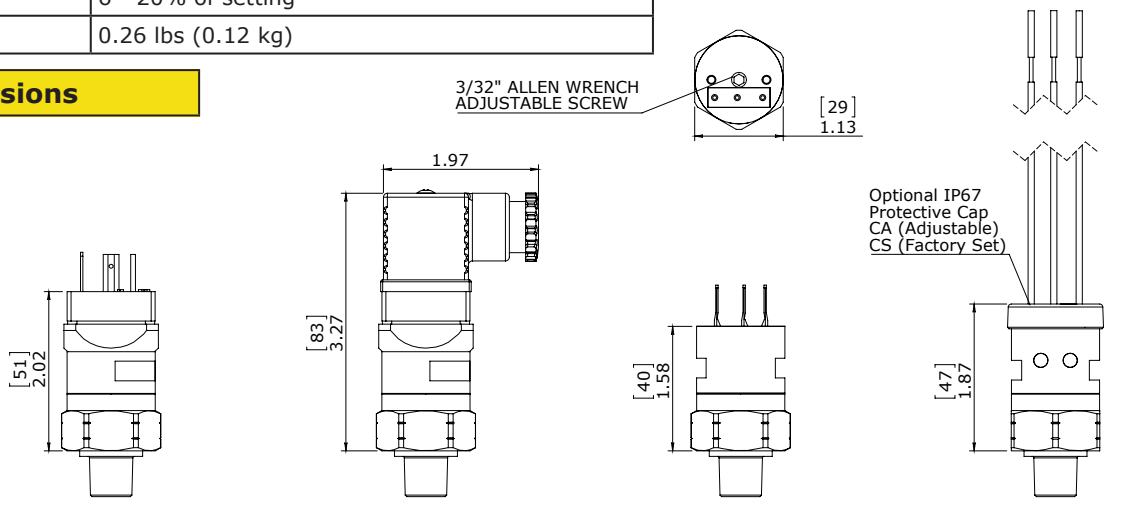
Specifications

Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC] Optional: 10A or Gold Contact
Switch Type	Snap Action
Protection	DIN 43650A - IP65, Terminals - IP00
Temperature Range	-20°F to 180°F (-29°C to 82°C) Nitrile
Mechanical Range	1,000,000 Cycles @ 75 PSI (5.2 BAR)
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM, HNBR
Housing Material	Brass (Optional Stainless Steel)
Maximum Overpressure	350 PSI (24 BAR)
Repeatability	+/- 2% of full set point range at 20°C (68°F)
Differential	6 - 20% of setting
Weight	0.26 lbs (0.12 kg)

Pressure Range

Model	Adjustment Range	
	PSI	BAR
1	3 - 7	0.2 - 0.5
2	5 - 30	0.3 - 2.1
3	25 - 150	1.7 - 10

Dimensions



H
Din Male Only

HC
DIN 43650A

SP
1/4" Spades

FL
Flying Leads

Wiring Code

CONTACT	FLYING LEADS	DIN 43650 TYPE	FLWF / FLWM FLCM / FLCF / FLPM / FLPF		FLDR / FLDP	
			SPDT MODEL	SPST MODEL	SPDT MODEL	SPST MODEL
COMMON	BLACK	PIN 1	PIN A	PIN A	PIN A	PIN 1
NORMALLY CLOSED	BLUE	PIN 2	PIN C	PIN B	PIN C	PIN 2
NORMALLY OPEN	RED	PIN 3	PIN B	PIN B	PIN B	PIN 2

SPA / SPF

ANFIELD SENSORS INC.

Ordering Information

	1	2	3	4	5 (Optional)
Field Adjustable	SPA -	2 -	2M -	C -	HC - 1
Factory Preset	SPF -	30F -	2M -	C -	HC - 1

1 - Pressure Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	PSI	BAR
1	3 - 7	0.2 - 0.5
2	5 - 30	0.3 - 2.1
3	25 - 150	1.7 - 10

OR

Insert set point value XXX followed by: R, F, BR, or BF

Set Point	Direction	Description
XXXX	**R**	PSI Rising Pressure
	F	PSI Falling Pressure
	BR	BAR Rising Pressure
	BF	BAR Falling Pressure

2 - Thread Options:

- **2M** - 1/8 NPT male
- **4M** - 1/4 NPT male
- **2G** - 1/8 BSPP male, G1/8
- **4G** - 1/4 BSPP male, G1/4
- **4S** - 7/16-20 SAE male, with O-ring seal
- **6S** - 9/16-18 SAE male, with O-ring seal

3 - Circuit:

- **A** - SPST (Normally Open)
- **B** - SPST (Normally Closed)
- **C** - SPDT (Single Pole Double Throw : Normally Open and Normally Closed)

4 - Electrical Termination:

- **H** - DIN 43650A - connector type - male half only (only available in SPDT option)
- **HC** - DIN 43650A - connector type (only available in SPDT option)
- **HN** - DIN 43650A 1/2" NPT Conduit (only available in SPDT option)
- **FL** - Flying Lead 18" long, 18 AWG
- **FLWF** - Flying Lead Weatherpack connector, female, Tower, 10" long leads
- **FLWM** - Flying Lead Weatherpack connector, male, Shroud, 10" long leads
- **FLDP** - Flying Lead Deutsch connector, plug, 10" long leads
- **FLDR** - Flying Lead Deutsch connector, receptacle, 10" long leads
- **FLCM** - Flying Lead Metripack, male, 150 series, 10" long leads
- **FLCF** - Flying Lead Metripack, female, 150 series, 10" long leads
- **FLPM** - Flying Lead Metripack, male, 280 series, 10" long leads
- **FLPF** - Flying Lead Metripack, female, 280 series, 10" long leads
- **SP** - 1/4" Spade

5 - Options (Omit if not required):

- **1** - Viton® Diaphragm
- **2** - EPDM Diaphragm
- **3** - 316 Stainless Steel Housing
- **4** - HNBR Diaphragm
- **6** - Lead Free Brass
- **7** - Gold Contact, Snap Action Microswitch @ 20 mA/12 VDC
- **8** - 10 amp, Snap Action Microswitch @ 10(2) 125 VAC (inductive), 6(2) 250 VAC (inductive)
- **20** - Seal Adjustment Screw
- **OC** - Oxygen Cleaned Switches
- **SR** - Snubber
- **CA** - IP67 rated protective cover with a removable plug (For adjustable switches, SPA Flying lead model)
- **CS** - IP67 rated protective cover (For factory set switches, SPF Flying lead model)

Note: Please see page 51 for other available options

SWA / SWF

* UL available for certain models

DESCRIPTION

The SWA is a compact designed pressure switch ideal for OEM applications. It is available with WRAS approved EPDM diaphragm for potable water use. Features a high quality snap action micro switch for years of trouble free operation. Lead free brass is now available for special application requirements.

FEATURES

- Very Compact
- Factory set or field adjustable
- Internally vented option
- WRAS approved EPDM diaphragms available

APPLICATION

- Water pressure boost pumps
- Filter monitoring

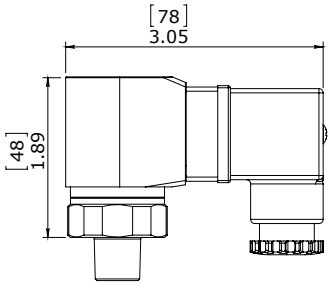
Specifications

Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC] Optional: 10A or Gold Contact
Switch Type	Snap Action
Protection	DIN 43650A - IP65, Flying Leads - IP64
Temperature Range	-20°F to 180°F (-29°C to 82°C) Nitrile
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM, HNBR
Housing Material	Brass (Optional Stainless Steel)
Maximum Overpressure	250 PSI (17 BAR)
Repeatability	+/- 2% of full set point range at 20°C (68°F)
Weight	0.14 lbs (0.062 kg)

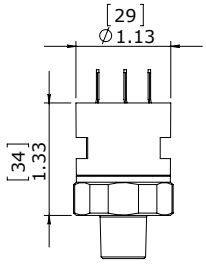
Pressure Range

Model	Adjustment Range	
	PSI	BAR
1	7 - 21	0.5 - 1.5
2	15 - 35	1.0 - 2.4
4	30 - 100	2.1 - 6.9

Dimensions



HCR
Right angled DIN 43650A



SP
1/4" Spades

FL
Flying Leads

Wiring Code

CONTACT	FLYING LEADS	DIN 43650 TYPE	FLWF / FLWM FLCM / FLCF / FLPM / FLPF		FLDR / FLDP	
			SPDT MODEL	SPST MODEL	SPDT MODEL	SPST MODEL
COMMON	BLACK	PIN 1	PIN A	PIN A	PIN A	PIN 1
NORMALLY CLOSED	BLUE	PIN 2	PIN C	PIN B	PIN C	PIN 2
NORMALLY OPEN	RED	PIN 3	PIN B	PIN B	PIN B	PIN 2

SWA / SWF

ANFIELD SENSORS INC.

Ordering Information

Field Adjustable

	1		2		3		4		5 (Optional)
SWA	2	-	2M	-	C	-	FL	-	1

Factory Preset

	1		2		3		4		5 (Optional)
SWF	30F	-	2M	-	C	-	FL	-	1

1 - Pressure Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	PSI	BAR
1	7 - 21	0.5 - 1.5
2	15 - 35	1.0 - 2.4
4	30 - 100	2.1 - 6.9

OR

Insert set point value XXX followed by: R, F, BR, or BF

Set Point	Direction	Description
XXXX	**R**	PSI Rising Pressure
	F	PSI Falling Pressure
	BR	BAR Rising Pressure
	BF	BAR Falling Pressure

2 - Thread Options:

2M - 1/8 NPT male
4M - 1/4 NPT male
2G - 1/8 BSPP male, G1/8
4G - 1/4 BSPP male, G1/4

3 - Circuit:

A - SPST (Normally Open)
B - SPST (Normally Closed)
C - SPDT (Single Pole Double Throw : Normally Open and Normally Closed)

4 - Electrical Termination:

HCR - 90 Degree DIN 43650A - connector type - (only available in SPDT option)
FL - Flying Lead 18" long, 18 AWG
FLWF - Flying Lead Weatherpack connector, female, Tower, 10" long leads
FLWM - Flying lead Weatherpack connector, male, Shroud, 10" long leads
FLDP - Flying Lead Deutsch connector, plug, 10" long leads
FLDR - Flying Lead Deutsch connector, receptacle, 10" long leads
FLCM - Flying Lead Metripack, male, 150 series, 10" long leads
FLCF - Flying Lead Metripack, female, 150 series, 10" long leads
FLPM - Flying Lead Metripack, male, 280 series, 10" long leads
FLPF - Flying Lead Metripack, female, 280 series, 10" long leads
SP - 1/4" Spade

5 - Options (Omit if not required):

1 - Viton® Diaphragm
2 - EPDM Diaphragm
3 - 316 Stainless Steel Housing
4 - HNBR Diaphragm
6 - Lead Free Brass
7 - Gold Contact, Snap Action Microswitch @ 20 mA/12 VDC
8 - 10 amp, Snap Action Microswitch @ 10(2) 125 VAC (inductive), 6(2) 250 VAC (inductive)
20 - Seal Adjustment Screw
OC - Oxygen Cleaned Switches
SR - Snubber
CA - IP67 rated protective cover with a removable plug (For adjustable switches, SWA Flying lead model)
CS - IP67 rated protective cover (For factory set switches, SWF Flying lead model)

Note: Please see page 51 for other available options

SMA / SMF

* UL available for certain models

DESCRIPTION

The SMA pressure switch is ideal for many hydraulic and pneumatic applications. It utilizes a proven piston/ diaphragm design to provide excellent accuracy and high proof pressures with zero leakage. Any flying leads are available with IP67 rating "CA" & "CS" option, making it an exceptional product for outdoor environments.

FEATURES

- Snap action micro switch
- Factory set or field adjustable
- Diaphragm/piston design for longevity
- Wide adjustment range
- High proof pressures

APPLICATIONS

- Hydraulic system control
- Material handling equipment
- Lubrication systems
- Garbage compactors

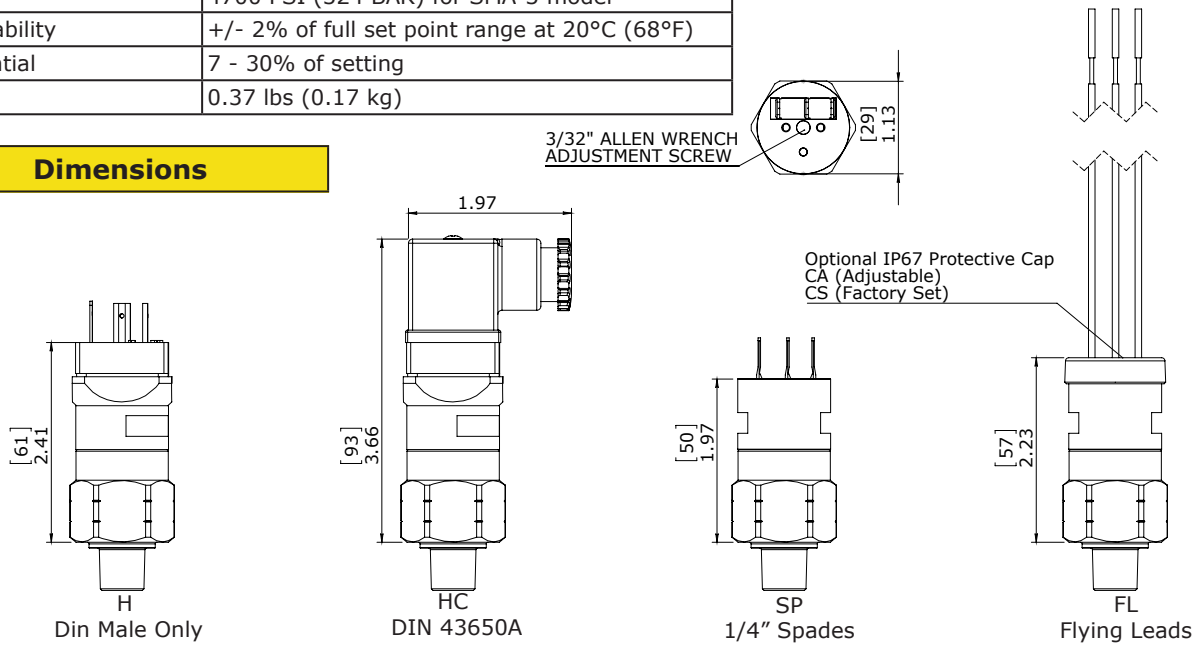
Specifications

Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC] Optional: 10A or Gold Contact
Switch Type	Snap Action
Protection	DIN 43650A - IP65, Terminals - IP00
Temperature Range	-20°F to 180°F (-29°C to 82°C) Nitrile
Mechanical Range	1,000,000 Cycles @ 1000 PSI (69 BAR)
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM
Housing Material	Zinc Plated Steel (Optional Stainless Steel)
Maximum Overpressure	9000 PSI (620 BAR) 4700 PSI (324 BAR) for SMA-3 model
Repeatability	+/- 2% of full set point range at 20°C (68°F)
Differential	7 - 30% of setting
Weight	0.37 lbs (0.17 kg)

Pressure Range

Model	Adjustment Range	
	PSI	BAR
3	10 - 35	0.7 - 2.4
4	30 - 120	2.0 - 8.0
5	75 - 300	5.2 - 21
6	300 - 1200	21 - 83
7	1000 - 3000	69 - 207
8	2000 - 5000	138 - 345

Dimensions



H
Din Male Only

HC
DIN 43650A

SP
1/4" Spades

FL
Flying Leads

Wiring Code

CONTACT	FLYING LEADS	DIN 43650 TYPE	FLWF / FLWM FLCM / FLCF / FLPM / FLPF		FLDR / FLDP	
			SPDT MODEL	SPST MODEL	SPDT MODEL	SPST MODEL
COMMON	BLACK	PIN 1	PIN A	PIN A	PIN A	PIN 1
NORMALLY CLOSED	BLUE	PIN 2	PIN C	PIN B	PIN C	PIN 2
NORMALLY OPEN	RED	PIN 3	PIN B	PIN B	PIN B	PIN 2

ANFIELD SENSORS INC.

Ordering Information

	1	2	3	4	5 (Optional)
Field Adjustable	SMA -	4 -	2M -	C -	HC - 1
Factory Preset	SMF -	30F -	2M -	C -	HC - 1

1 - Pressure Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	PSI	BAR
3	10 - 35	0.7 - 2.4
4	30 - 120	2.0 - 8.0
5	75 - 300	5.2 - 21
6	300 - 1200	21 - 83
7	1000 - 3000	69 - 207
8	2000 - 5000	138 - 345

OR

Insert set point value XXX followed by: R, F, BR, or BF

Set Point	Direction	Description
XXXX	**R**	PSI Rising Pressure
	F	PSI Falling Pressure
	BR	BAR Rising Pressure
	BF	BAR Falling Pressure

2 - Thread Options:

2M - 1/8 NPT male
4M - 1/4 NPT male
2G - 1/8 BSPP male, G1/8
4G - 1/4 BSPP male, G1/4
4S - 7/16-20 SAE male, with O-ring seal
4SLN - 7/16-20 SAE male, with O-ring seal, adjustable
6S - 9/16-18 SAE male, with O-ring seal
M10 - M10 X 1.0 male
M12 - M12 X 1.5 male

3 - Circuit:

A - SPST (Normally Open)
B - SPST (Normally Closed)
C - SPDT (Single Pole Double Throw : Normally Open and Normally Closed)

4 - Electrical Termination:

H - DIN 43650A - connector type - male half only (only available in SPDT option)
HC - DIN 43650A - connector type (only available in SPDT option)
HN - DIN 43650A 1/2" NPT Conduit (only available in SPDT option)
FL - Flying Lead 18" long, 18 AWG
FLWF - Flying Lead Weatherpack connector, female, Tower, 10" long leads
FLWM - Flying Lead Weatherpack connector, male, Shroud, 10" long leads
FLDP - Flying Lead Deutsch connector, plug, 10" long leads
FLDR - Flying Lead Deutsch connector, receptacle, 10" long leads
FLCM - Flying Lead Metripack, male, 150 series, 10" long leads
FLCF - Flying Lead Metripack, female, 150 series, 10" long leads
FLPM - Flying Lead Metripack, male, 280 series, 10" long leads
FLPF - Flying Lead Metripack, female, 280 series, 10" long leads
SP - 1/4" Spade

5 - Options (Omit if not required):

1 - Viton® Diaphragm
2 - EPDM Diaphragm
3 - 316 Stainless Steel Housing
4 - HNBR Diaphragm
7 - Gold Contact, Snap Action Microswitch @ 20 mA/12 VDC
8 - 10 amp, Snap Action Microswitch @ 10(2) 125 VAC (inductive), 6(2) 250 VAC (inductive)
20 - Seal Adjustment Screw
OC - Oxygen Cleaned Switches
SR - Snubber
CA - IP67 rated protective cover with a removable plug (For adjustable switches, SMA Flying lead
CS - IP67 rated protective cover (For factory set switches, SMF Flying lead model)

Note: Please see page 51 for other available options

SDCA / SDCF

DESCRIPTION

A robust pressure switch with full metal stops for demanding applications. Features a heavy steel body providing high proof pressures as well as an outstanding burst pressure rating. Excellent for hydraulic applications that may see system pressure shock.

FEATURES

- Snap action micro switch
- Factory set or field adjustable
- Full metal stops
- High proof pressure

APPLICATIONS

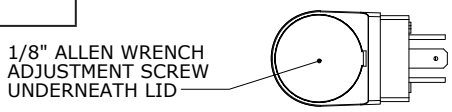
- Industrial equipment
- Scissor lifts
- Presses
- Cranes

Specifications

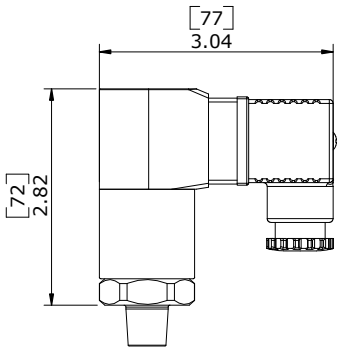
Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC] Optional: 10A or Gold Contact
Switch Type	Snap Action
Protection	DIN 43650A - IP65, Terminals - IP00
Temperature Range	-20°F to 180°F (-29°C to 82°C) Nitrile
Mechanical Range	1,000,000 Cycles @ 1000 PSI (69 BAR)
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM
Housing Material	Zinc Plated Steel (Optional Stainless Steel)
Maximum Overpressure	12000 PSI (827 BAR)
Repeatability	+/- 2% of full set point range at 20°C (68°F)
Differential	7 - 30 % of setting
Weight	0.69 lbs (0.31 kg)

Pressure Range

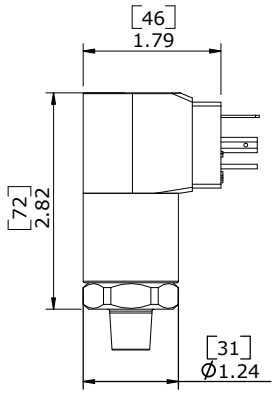
Model	Adjustment Range	
	PSI	BAR
2	15 -75	1.2 - 5.2
3	50 - 150	3.4 - 10
4	150 - 650	10 - 44
5	500 - 1750	34 - 120
6	1500 - 6000	103 - 413

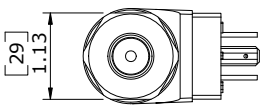


Dimensions



HCR
Right angled DIN
43650A





HR
Right angled DIN
43650A male only

Wiring Code

CONTACT	DIN 43650 TYPE
COMMON	PIN 1
NORMALLY CLOSED	PIN 2
NORMALLY OPEN	PIN 3

SDCA / SDCF

ANFIELD SENSORS INC.

Ordering Information

		1		2		3		4		5 (Optional)
Field Adjustable	**SDCA**	**-**	**2**	**-**	**2M**	**-**	**C**	**-**	**HC**	**-**	**1**
Factory Preset	**SDCF**	**-**	**50F**	**-**	**2M**	**-**	**C**	**-**	**HC**	**-**	**1**

1 - Pressure Selection

Field Adjustable - Select Model Code

Model	Adjustment Range	
	PSI	BAR
2	15 - 75	1.2 - 5.2
3	50 - 150	3.4 - 10
4	150 - 650	10 - 44
5	500 - 1750	34 - 120
6	1500 - 6000	103 - 413

OR

Insert set point value XXX followed by: R, F, BR, or BF

Set Point	Direction	Description
XXXX	**R**	PSI Rising Pressure
	F	PSI Falling Pressure
	BR	BAR Rising Pressure
	BF	BAR Falling Pressure

2 - Thread Options:

4M - 1/4 NPT male
4MF - 1/4 NPT female
4G - 1/4 BSPP male, G1/4
4GF - 1/4 BSPP female, G1/4
4S - 7/16-20 SAE male, with O-ring seal

3 - Circuit:

C - SPDT (Single Pole Double Throw)

4 - Electrical Termination:

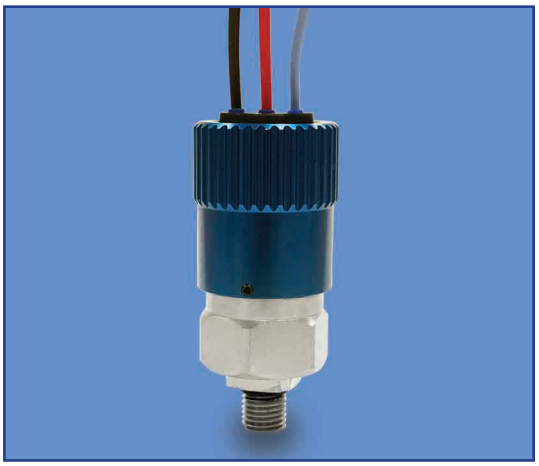
HR - 90 Degree DIN 43650A - connector type - male half only (only available in SPDT option)
HCR - 90 Degree DIN 43650A PG9/PG11- connector type (only available in SPDT option)
HNR - 90 Degree DIN 43650A 1/2" NPT Conduit (only available in SPDT option)

5 - Options (Omit if not required):

1 - Viton® Diaphragm
2 - EPDM Diaphragm
3 - 316 Stainless Steel Process Connection
4 - HNBR Diaphragm
7 - Gold Contact, Snap Action Microswitch @ 20mA/12VDC
8 - 10 amp, Snap Action Microswitch @ 10(2) 125 VAC (inductive), 6(2) 250 VAC (inductive)
20 - Seal Adjustment Screw
OC - Oxygen Cleaned Switches
SR - Snubber

Note: Please see page 51 for other available options

KAPS / KAPF



DESCRIPTION

The KAPS/KAPF is a piston pressure switch featuring an external adjustment knob to quickly adjust set point . The switch is IP67 rated, enabling high performance in most outdoor conditions. It is excellent for hydraulic applications with long cycle life.

FEATURES

- Snap action micro switch
- Factory set or field adjustable
- Full metal stops
- High proof pressure

APPLICATIONS

- Industrial equipment
- Scissor lifts
- Presses
- Cranes

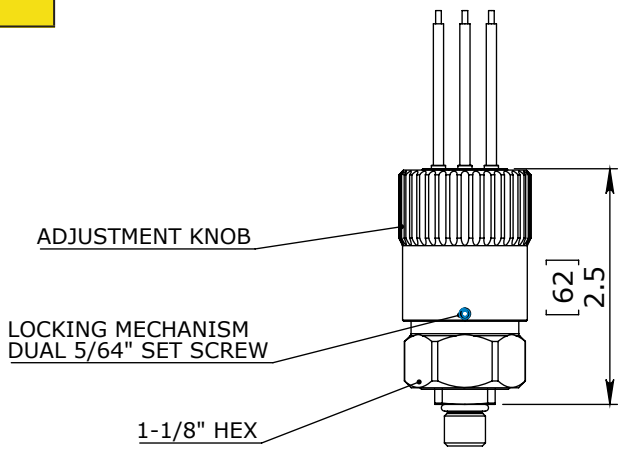
Specifications

Electrical	5A [12/24 VDC, 125 VAC/250 VAC] Optional: 10A or Gold Contact
Switch Type	Snap Action
Protection	IP67
Temperature Range	-20°F to 248°F (-29°C to 120°C) HNBR
Mechanical Range	1,000,000 Cycles @ 2500 PSI (172 BAR)
Piston Seal	HNBR
Housing Material	Zinc Plated Steel
Maximum Overpressure	15000 PSI (1034 BAR)
Repeatability	+/- 2% of full set point range at 20°C (68°F)
Differential	6 - 25 % of setting
Weight	0.44 lbs (0.2 kg)

Pressure Range

Model	Adjustment Range	
	PSI	BAR
5	350 - 1000	24 - 69
6	600 - 1600	41 - 110
7	1000 - 3200	69 - 220

Dimensions



Wiring Code

CONTACT	FLYING LEADS	FLWF / FLWM FLCM / FLCF / FLPM / FLPF		FLDR / FLDP	
		SPDT MODEL	SPST MODEL	SPDT MODEL	SPST MODEL
COMMON	BLACK	PIN A	PIN A	PIN A	PIN 1
NORMALLY CLOSED	BLUE	PIN C	PIN B	PIN C	PIN 2
NORMALLY OPEN	RED	PIN B	PIN B	PIN B	PIN 2

KAPS / KAPF

Ordering Information

		1		2		3		4		5 (Optional)
Field Adjustable	KAPS	5	-	4M	-	C	-	FL	-	1
Factory Preset	KAPF	350F	-	4M	-	C	-	FL	-	1

1 - Pressure Selection

Field Adjustable - Select Model Code

Model	Adjustment Range	
	PSI	BAR
5	350 - 1000	24 - 69
6	600 - 1600	41 - 110
7	1000 - 3200	69 - 220

OR

Insert set point value XXX followed by: R, F, BR, or BF

Set Point	Direction	Description
XXXX	**R**	PSI Rising Pressure
	F	PSI Falling Pressure
	BR	BAR Rising Pressure
	BF	BAR Falling Pressure

2 - Thread Options:

4M - 1/4 NPT male
4S - 7/16-20 SAE male, with O-ring seal

3 - Circuit:

A - SPST (Normally Open)
B - SPST (Normally Closed)
C - SPDT (Single Pole Double Throw : Normally Open and Normally Closed)

4 - Electrical Termination:

FL - Flying Lead 18” long, 18 AWG
FLWF - Flying Lead Weatherpack connector, female, Tower, 10” long leads
FLWM - Flying Lead Weatherpack connector, male, Shroud, 10” long leads
FLDP - Flying Lead Deutsch connector, plug, 10” long leads
FLDR - Flying Lead Deutsch connector, receptacle, 10” long leads
FLCM - Flying Lead Metripack, male, 150 series, 10” long leads
FLCF - Flying Lead Metripack, female, 150 series, 10” long leads
FLPM - Flying Lead Metripack, male, 280 series, 10” long leads
FLPF - Flying Lead Metripack, female, 80 series, 10” long leads

5 - Options (Omit if not required):

1 - Viton® Seal
7 - Gold Contact, Snap Action Microswitch @ 20mA/12VDC
8 - 10 amp, Snap Action Microswitch @ 10(1.5) 125 VAC/250 VAC (inductive)

Note: Please see page 51 for other available options

SKBA / SKBF

DESCRIPTION

A miniature pressure switch with high proof pressures ideal for mobile and other harsh applications. It is a well sealed design that offers ingress protection to IP68 when paired with the flying lead option. It is offered with a variety of mechanical and electrical terminations for easy integration.

FEATURES

- Silver nickel alloy contacts
- Diaphragm/piston combination
- High ingress protection
- Compact body
- Gold contact available

APPLICATIONS

- Industrial tools
- Garbage trucks
- Brake pressure switch

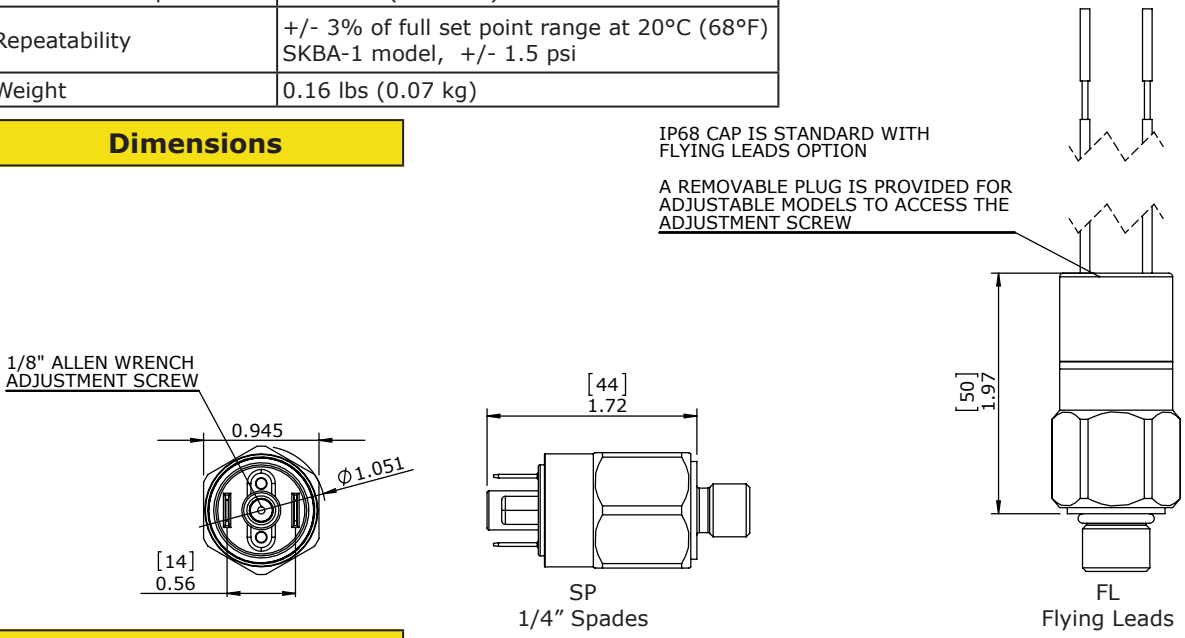
Specifications

Electrical	100 VA, 42 VDC Optional: Gold Contact
Switch Type	Blade Contact
Protection	Exposed Terminals - IP00 (IP68 Available)
Temperature Range	-20°F to 180°F (-29°C to 82°C) Nitrile
Mechanical Range	1,000,000 Cycles @ 1000 PSI (69 BAR)
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM, HNBR
Housing Material	Zinc Plated Steel (Optional Stainless Steel)
Maximum Overpressure	9000 PSI (600 BAR)
Repeatability	+/- 3% of full set point range at 20°C (68°F) SKBA-1 model, +/- 1.5 psi
Weight	0.16 lbs (0.07 kg)

Pressure Range

Model	Adjustment Range	
	PSI	BAR
1	5 - 20	0.3 - 1.4
2	20 - 120	1.4 - 8.2
3	90 - 250	6.2 - 17
4	250 - 950	17 - 65
5	700 - 1900	48 - 131
6	1000 - 3000	69 - 206

Dimensions



SP
1/4" Spades

FL
Flying Leads

Wiring Code

CONTACT	FLYING LEADS	FLWF / FLWM WEATHERPACK	FLDR / FLDP DEUTSCH RECEPTACLE / PLUG
COMMON	BLACK	PIN A	PIN 1
NORMALLY CLOSED	BLACK	PIN B	PIN 2
NORMALLY OPEN	BLACK	PIN B	PIN 2

SKBA / SKBF

ANFIELD SENSORS INC.

Ordering Information

	1	2	3	4	5 (Optional)
Field Adjustable	SKBA -	2 -	2M -	B -	SP - 1
Factory Preset	SKBF -	30F -	2M -	B -	SP - 1

1 - Pressure Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	PSI	BAR
1	5 - 20	0.1 - 1.4
2	20 - 120	1.4 - 8.2
3	90 - 250	6.2 - 17
4	250 - 950	17 - 65
5	700 - 1900	48 - 131
6	1000 - 3000	69 - 206

OR

Insert set point value XXX followed by: R, F, BR, or BF

Set Point	Direction	Description
XXXX	**R**	PSI Rising Pressure
	F	PSI Falling Pressure
	BR	BAR Rising Pressure
	BF	BAR Falling Pressure

2 - Thread Options:

2M - 1/8 NPT male
4M - 1/4 NPT male
2G - 1/8 BSPP male, G1/8
4G - 1/4 BSPP male, G1/4
4S - 7/16-20 SAE male, with O-ring seal
6S - 9/16-18 SAE male, with O-ring seal
M10 - M10 X 1.0 male
M12 - M12 X 1.5 male

3 - Circuit:

A - SPST (Normally Open)
B - SPST (Normally Closed)

4 - Electrical Termination:

FL - Flying Lead 18” long, 18 AWG, IP68 Cap is standard with this option
FLWF - Flying Lead Weatherpack connector, female, Tower, 10” long leads
FLWM - Flying Lead Weatherpack connector, male, Shroud, 10” long leads
FLDP - Flying Lead Deutsch connector, plug, 10” long leads
FLDR - Flying Lead Deutsch connector, receptacle, 10” long leads
SP - 1/4” Spade

5 - Options (Omit if not required):

1 - Viton® Diaphragm
2 - EPDM Diaphragm
4 - HNBR Diaphragm
7 - Gold Contact, 0.4 VA, 30 VDC
20 - Seal Adjustment Screw
30 - Rubber Boot - Removable (Excludes IP68 Cap if selected)
OC - Oxygen Cleaned Switches
SR - Snubber

Note: Please see page 51 for other available options

SKDF

DESCRIPTION

One of the smallest pressure switches in the market offering an integrated Deutsch receptacle. Plug in a mating Deutsch DT06-2S plug for an instant solution to the constant water spray present in mobile applications.

FEATURES

- Silver Nickel alloy contacts
- Direct blade contact
- Diaphragm/Piston combination
- Integrated Deutsch receptacle
- Gold contact available

APPLICATIONS

- Mobile equipment
- Street sweepers
- Cement trucks
- Aerial booms

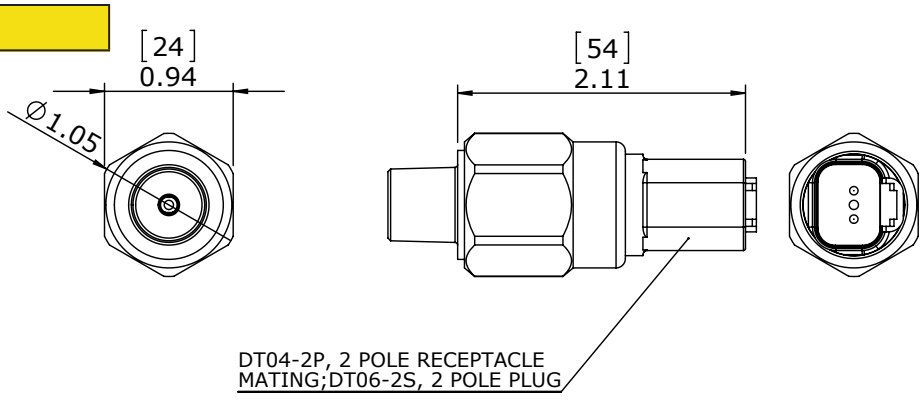
Specifications

Electrical	100 VA, 42 VDC Optional: Gold Contact
Switch Type	Blade Contact
Protection	IP67
Mating Connector	DT06-2S
Temperature Range	-20°F to 180°F (-29°C to 82°C) Nitrile
Mechanical Range	1,000,000 Cycles @ 1000 PSI (69 BAR)
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM, HNBR
Housing Material	Zinc Plated Steel (Optional Stainless Steel)
Maximum Overpressure	9000 PSI (600 BAR)
Repeatability at 20°C (68°F)	5 psi to 14.5 psi = +/- 1.5 psi 12.5 to 145 psi = +/- 5 psi 146 to 350 psi = +/- 11 psi 351 to 1000 psi = +/- 30 psi 1001 to 2175 psi = +/- 65 psi
Weight	0.15 lbs (0.06 kg)

Pressure Range

Set Point	
PSI	BAR
5 - 2175	0.3 - 150

Dimensions



Wiring Code

CONTACT	DEUTSCH RECEPTACLE
COMMON	PIN A
NORMALLY CLOSED	PIN B
NORMALLY OPEN	PIN B

ANFIELD SENSORS INC.

Ordering Information

	1	2	3	4	5 (Optional)
Factory Preset	SKDF -	30F -	2M -	B -	DR -	1

1 - Pressure Selection

Insert set point value XXX followed by: R, F, BR, or BF

Set Point	Direction	Description
XXXX	**R**	PSI Rising Pressure
	F	PSI Falling Pressure
	BR	BAR Rising Pressure
	BF	BAR Falling Pressure

2 - Thread Options:

- **2M** - 1/8 NPT male
- **4M** - 1/4 NPT male
- **2G** - 1/8 BSPP male, G1/8
- **4G** - 1/4 BSPP male, G1/4
- **4S** - 7/16-20 SAE male, with O-ring seal
- **6S** - 9/16-18 SAE male, with O-ring seal
- **M10** - M10 X 1.0 male
- **M12** - M12 X 1.5 male

3 - Circuit:

- **A** - SPST (Normally Open)
- **B** - SPST (Normally Closed)

4 - Electrical Termination:

- **DR** - Integrated Deutsch Receptacle - Mates with DT06-2S

5 - Options (Omit if not required):

- **1** - Viton® Diaphragm
- **2** - EPDM Diaphragm
- **4** - HNBR Diaphragm
- **7** - Gold Contact, 0.4 VA, 30 VDC
- **20** - Seal Adjustment Screw
- **OC** - Oxygen Cleaned Switches
- **SR** - Snubber

Note: Please see page 51 for other available options

SLBA / SLBF

DESCRIPTION

The SLBA / SLBF pressure switch is designed with a teflon coated polyimide diaphragm allowing for exceptional use in harsh temperatures with minimal effect to the set point. This switch is ideal for any applications less than 500 psi.

FEATURES

- Silver nickel alloy contacts
- Minimal temperature effect
- Vented internal system
- Compact body

APPLICATIONS

- Oil pressure switch
- Fuel pressure switch
- Boost pressure switch

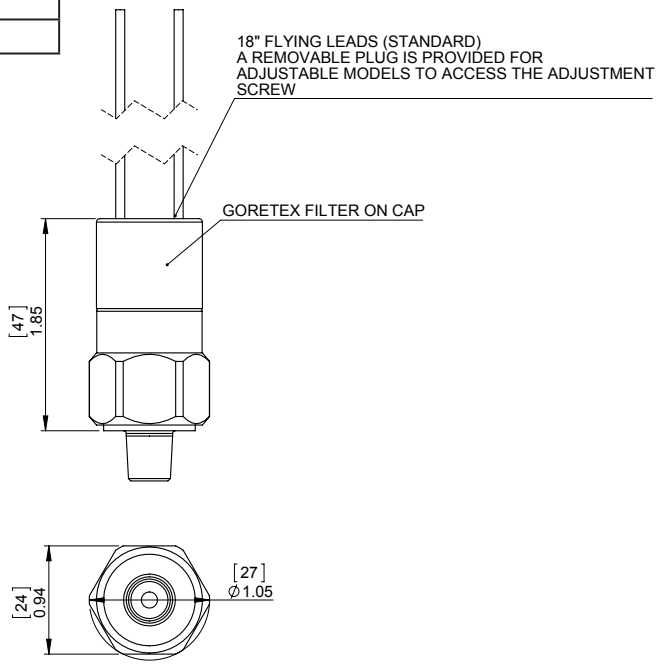
Specifications

Electrical	100 VA, 42 VDC
Switch Type	Blade Contact
Protection	IP68
Temperature Range	-40°F to 230°F (-40°C to 110°C)
Mechanical Range	1,000,000 Cycles @ 75 PSI
Diaphragm Material	Teflon coated polyimide
Housing Material	Brass
Seals	Nitrile (optional: Viton, EPDM)
Maximum Overpressure	500 psi
Repeatability	+/- 3% of full set point range
Weight	0.16 lbs (0.07 kg)

Pressure Range

MODEL	ADJUSTMENT RANGE	
	PSI	BAR
1	2 - 20	0.1 - 1.4
2	20 - 60	1.4 - 4.2
3	50 - 130	3.5 - 9.0

Dimensions



Wiring Code

CONTACT	FLYING LEADS	FLWF	FLDR / FLDP DEUTSCH RECEPTACLE / PLUG
COMMON	BLACK	PIN A	PIN 1
NORMALLY CLOSED	BLACK	PIN B	PIN 2
NORMALLY OPEN	BLACK	PIN B	PIN 2

ANFIELD SENSORS INC.

Ordering Information

	1	2	3	4	5 (Optional)
Field Adjustable	SLBA -	1 -	2M -	A -	FL - 1
Factory Preset	SLBF -	30F -	2M -	A -	FL - 1

1 - Pressure Selection:

Field Adjustable - Select Model Code

MODEL	ADJUSTMENT RANGE	
	PSI	BAR
1	2 - 20	0.1 - 1.4
2	20 - 60	1.4 - 4.2
3	50 - 135	3.5 - 9.37

OR

Insert set point value XXX followed by: R, F, BR, or BF

Set point	Direction	Description
XXXX	**R**	PSI Rising Pressure
	F	PSI Falling Pressure
	BR	BAR Rising Pressure
	BF	BAR Falling Pressure

2 - Thread Options:

2M - 1/8 NPT male

3 - Circuit:

A - SPST (Normally Open)
B - SPST (Normally Closed)

4 - Electrical Termination:

FL - Flying Lead 18” long, 18 AWG, IP68 Cap is standard with this option
FLWF - Flying Lead Weatherpack connector, female, Tower, 10” long leads
FLWM - Flying Lead Weatherpack connector, male, Shroud, 10” long leads
FLDP - Flying Lead Deutsch connector, plug, 10” long leads
FLDR - Flying Lead Deutsch connector, receptacle, 10” long leads
FLCM Flying Lead Metripack, male, 150 series, 10” long leads
FLCF Flying Lead Metripack, female, 150 series, 10” long leads
FLPM Flying Lead Metripack, male, 280 series, 10” long leads
FLPF Flying Lead Metripack, female, 280 series, 10” long leads

5 - Options (Omit if not required):

1 - Viton® Seal
2 - EPDM Seal
7 - Gold Contact, 0.4VA, 30 VDC
SR - Snubber

Note: Please see page 51 for other available options

SPAL / SPFL / SPFLH

DESCRIPTION

A simple and common pressure switch utilizing a polyimide diaphragm for extended duty applications. It is used in many automotive applications for monitoring of engine functions and auxiliary devices.

FEATURES

- Gold plated silver alloy contacts
- High current ratings
- Works well in extreme temperatures
- Very economical

APPLICATIONS

- Oil pressure switch
- Fuel pressure switch
- Exhaust pressure switch
- Air brake switch

Specifications

Electrical	Resistive	Inductive
	15 AMP - 6 VDC	1 AMP - 120 VAC
	8 AMP - 12 VDC	0.5 AMP - 240 VAC
	4 AMP - 24 VDC	
Switch Type	Blade Contact	
Protection	Terminals - IP00	
Temperature Range	-40°F to 248°F (-40°C to 120°C) Polyimide Film	
Mechanical Range	1,000,000 Cycles @ 75 PSI (5.2 BAR)	
Diaphragm Material	Standard: Polyimide Film Optional: EPDM (must be selected when in contact with water)	
Housing Material	Brass, Glass Reinforced Polyester (Optional Stainless Steel)	
Maximum Overpressure	Model 1A to 5A - 150 PSI (3.5 BAR) Model 6A to 8A - 250 PSI (17 BAR) Model 1H to 5H - 500 PSI (34 BAR)	
Weight	0.14 lbs (0.06 kg)	

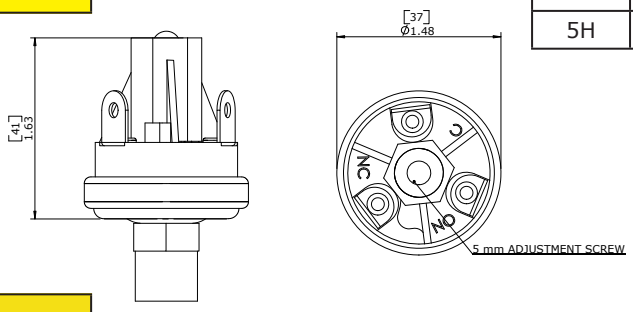
Pressure Range

Model	Adjustment Range	
	PSI	BAR
1A	0.5 - 1.0	0.03 - 0.07
2A	1.1 - 3.0	0.08 - 0.21
3A	3.1 - 7.0	0.21 - 0.49
4A	8.0 - 13	0.55 - 0.90
5A	14 - 24	0.97 - 1.65
6A	25 - 50	1.72 - 3.45
7A	51 - 90	3.52 - 6.20
8A	91 - 150	6.27 - 10.34

* Model **1H** to **5H** has an overpressure of 500 PSI

Model	Adjustment Range	
	PSI	BAR
1H	10 - 35	0.69 - 2.41
2H	35 - 75	2.41 - 5.17
3H	75 - 150	5.17 - 10.34
4H	150 - 250	10.34 - 17.24
5H	250 - 400	17.24 - 27.58

Dimensions



Wiring Code

CONTACT	FLYING LEADS	DIN 43650 TYPE	FLWF / FLWM FLCM / FLCF / FLPM / FLPF		FLDR / FLDP	
			SPDT MODEL	SPST MODEL	SPDT MODEL	SPST MODEL
COMMON	BLACK	PIN 1	PIN A	PIN A	PIN A	PIN 1
NORMALLY CLOSED	BLUE	PIN 2	PIN C	PIN B	PIN C	PIN 2
NORMALLY OPEN	RED	PIN 3	PIN B	PIN B	PIN B	PIN 2

SPAL / SPFL / SPFLH

ANFIELD SENSORS INC.

Ordering Information

		1	2	3	4	5 (Optional)
Field Adjustable	SPAL	2A	2M	B	FL	3
Factory Preset	SPFL	30F	2M	B	FL	3
Factory Preset	SPFLH	30F	2M	B	FL	3

(Select this ordering code if you require a factory set switch with the high overpressure option.)

1 - Pressure Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	PSI	BAR
1A	0.5 - 1.0	0.03 - 0.07
2A	1.1 - 3.0	0.08 - 0.21
3A	3.1 - 7.0	0.21 - 0.49
4A	8.0 - 13	0.55 - 0.90
5A	14 - 24	0.97 - 1.65
6A	25 - 50	1.72 - 3.45
7A	51 - 90	3.52 - 6.20
8A	91 - 150	6.27 - 10.34
1H	10 - 35	0.69 - 2.41
2H	35 - 75	2.41 - 5.17
3H	75 - 150	5.17 - 10.34
4H	150 - 250	10.34 - 17.24
5H	250 - 400	17.24 - 27.58

OR

Insert set point value XXX followed by: R, F, BR, or BF

Set Point	Direction	Description
XXXX	**R**	PSI Rising Pressure
	F	PSI Falling Pressure
	BR	BAR Rising Pressure
	BF	BAR Falling Pressure

*If you require a factory preset switch with an overpressure higher than 250 PSI, please select the model code SPFLH.

2 - Thread Options:

2M - 1/8 NPT male
4M - 1/4 NPT male
2G - 1/8 BSPP male, G1/8
4G - 1/4 BSPP male, G1/4

3 - Circuit:

A - SPST (Normally Open)
B - SPST (Normally Closed)
D - SPDT (Single Pole Double Throw : Normally Open and Normally Closed)
E - SPDT (Single Pole Double Throw, Adjustable Differential)

4 - Electrical Termination:

FL - Flying Lead 18” long, 18 AWG
FLWF - Flying Lead Weatherpack connector, female, Tower, 10” long leads
FLWM - Flying Lead Weatherpack connector, male, Shroud, 10” long leads
FLDP - Flying Lead Deutsch connector, plug, 10” long leads
FLDR - Flying Lead Deutsch connector, receptacle, 10” long leads
FLCM - Flying Lead Metripack, male, 150 series, 10” long leads
FLCF - Flying Lead Metripack, female, 150 series, 10” long leads
FLPM - Flying Lead Metripack, male, 280 series, 10” long leads
FLPF - Flying Lead Metripack, female, 280 series, 10” long leads
SP - 1/4” Spade
TS - Terminal Screws, #8-32

5 - Options (Omit if not required):

2 - EPDM Diaphragm
3 - Stainless Steel Housing
20 - Seal Adjustment Screw
30 - Rubber Boot - Removable

Note: Please see page 51 for other available options

SLF

DESCRIPTION

A basic snap disc design pressure switch for control applications. It has the ability to automatically reset pressure at various desired settings. Its main uses are in the air conditioning and refrigeration field.

FEATURES

- Stainless steel diaphragm
- Compact size
- Low cost
- Factory adjusted differential
- Preset differential

APPLICATIONS

- Air conditioning
- Refrigeration

Specifications

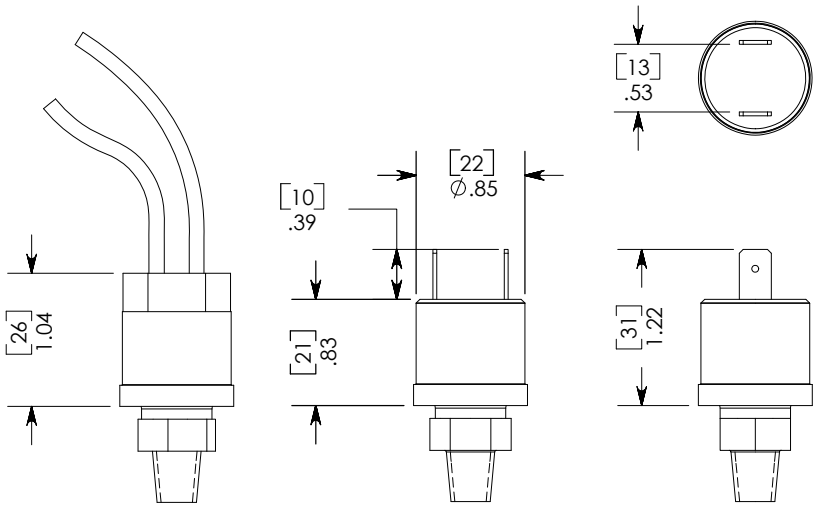
Electrical	2A [12/24 VDC] or 120/240 VAC, 375 VA
Switch Type	Snap Disc
Protection	Terminals - IP00
Temperature Range	-40°F to 180°F (-40°C to 82°C) Stainless Steel
Mechanical Range	100,000 Cycles
Diaphragm Material	Standard: Stainless Steel
Housing Material	Brass
Maximum Overpressure	500 PSI (35 BAR) for set points up to 145 PSI (10 BAR) 770 PSI (55 BAR) for set points 146 PSI to 290 PSI (10.1 BAR - 20 BAR) 1200 PSI (85 BAR) for set points 291 PSI to 630 PSI (20.1 BAR - 45 BAR)
Weight	0.07 lbs (0.03 kg)

Pressure Range

Set Point	
PSI	BAR
5 - 650	0.3 - 45

*Factory Set Only

Dimensions



FL
Flying Leads

SP
1/4" Spades

ANFIELD SENSORS INC.

Wiring Code

CONTACT	FLYING LEADS	FLWF / FLWM WEATHERPACK	FLDR / FLDP DEUTSCH RECEPTACLE / PLUG
COMMON	BLACK	A	PIN 1
NORMALLY CLOSED	BLACK	B	PIN 2
NORMALLY OPEN	BLACK	B	PIN 2

Ordering Information

Factory Preset

	SLF	-	30R/25F	-	2M	-	A	-	FL
			1		2		3		4

1 - Pressure Selection

Insert rising and falling set point value XXX followed by: R, F, BR, or BF

Set Point	Direction	Description
XX/XX	**R**	PSI Rising Pressure
	F	PSI Falling Pressure
	BR	BAR Rising Pressure
	BF	BAR Falling Pressure

2 - Thread Options:

- **2M** - 1/8 NPT male
- **2F** - 1/8 NPT female
- **4M** - 1/4 NPT male
- **4MF** - 1/4 NPT female
- **2G** - 1/8 BSPP male, G1/8
- **2BF** - 1/8 BSPP female, G1/8
- **4G** - 1/4 BSPP male, G1/4
- **4GF** - 1/4 BSPP female, G1/4

3 - Circuit:

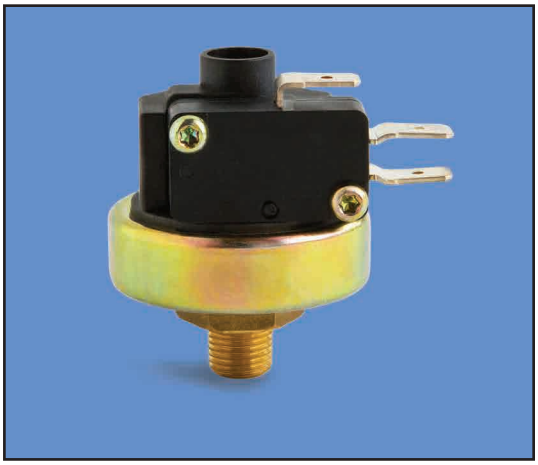
- **A** - SPST (Normally Open)
- **B** - SPST (Normally Closed)

4 - Electrical Termination:

- **FL** - Flying Lead 18” long, 18 AWG
- **FLWF** - Flying Lead Weatherpack connector, female, Tower, 10” long leads
- **FLWM** - Flying Lead Weatherpack connector, male, Shroud, 10” long leads
- **FLDP** - Flying Lead Deutsch connector, plug, 10” long leads
- **FLDR** - Flying Lead Deutsch connector, receptacle, 10” long leads
- **FLCM** - Flying Lead Metripack, male, 150 series, 10” long leads
- **FLCF** - Flying Lead Metripack, female, 150 series, 10” long leads
- **FLPM** - Flying Lead Metripack, male, 280 series, 10” long leads
- **FLPF** - Flying Lead Metripack, female, 280 series, 10” long leads
- **SP** - 1/4” Spade
- **TS** - Terminal Screw, #8-32

Note: Please see page 51 for other available options

SPAH / SPFH



DESCRIPTION

A small open type construction switch suitable for use in the electrical appliance market. Its high current ratings allow direct control of heating elements and motor loads without the use of an additional relay. It is ideal for high volume requirements.

FEATURES

- Very high current rating
- Compact size
- Open type construction

APPLICATIONS

- Household appliances
- Motor switching
- Heating element switching

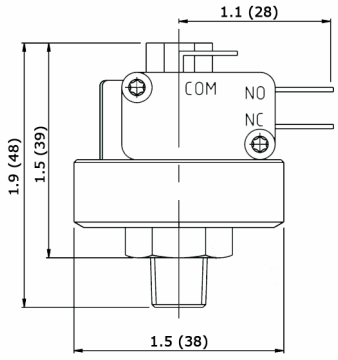
Specifications

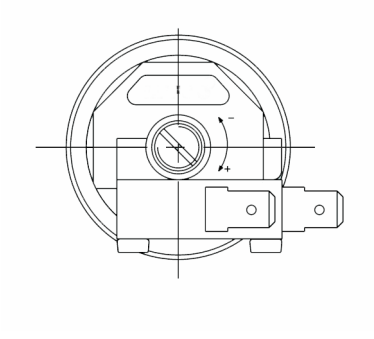
Electrical	16A, 125/250 VAC 21A, 125/250 VAC
Switch Type	Snap Action
Protection	Terminals - IP00
Temperature Range	-20°F to 257°F (-29°C to 125°C)
Diaphragm Material	Standard: Stainless Steel
Housing Material	Brass , Glass reinforced polyester
Maximum Overpressure	Model 1 - 43 PSI (3 BAR) Model 2 - 58 PSI (4 BAR) Model 3 - 72 PSI (5 BAR) Model 4 - 87 PSI (6 BAR) Model 5 - 116 PSI (8 BAR) Model 6 - 145 PSI (10 BAR)
Weight	0.16 lbs (0.07 kg)

Pressure Range

Model	Adjustment Range	
	PSI	BAR
1	3 - 9	0.2 - 0.6
2	7 - 20	0.5 - 1.5
3	17 - 36	1.2 - 2.5
4	29 - 58	2.0 - 4.0
5	43 - 100	3.0 - 6.9
6	70 - 130	4.8 - 9.0

Dimensions





SP
1/4" Spades

Wiring Code

CONTACT	SP
COMMON	COM
NORMALLY CLOSED	NC
NORMALLY OPEN	NO

ANFIELD SENSORS INC.

Ordering Information

	1	2	3	4	5
Field Adjustable	SPAH -	2 -	2M -	C1 -	QC1 -	T1
Factory Preset	SPFH -	30F -	2M -	C1 -	QC1 -	T1

1 - Pressure Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	PSI	BAR
1	3 - 9	0.2 - 0.6
2	7 - 20	0.5 - 1.5
3	17 - 36	1.2 - 2.5
4	29 - 58	2.0 - 4.0
5	43 - 100	3.0 - 6.9
6	70 - 130	4.8 - 9.0

OR

Insert set point value XXX followed by: R, F, BR, or BF

Set Point	Direction	Description
XXXX	**R**	PSI Rising Pressure
	F	PSI Falling Pressure
	BR	BAR Rising Pressure
	BF	BAR Falling Pressure

2 - Thread Options:

2M - 1/8 NPT male
4M - 1/4 NPT male
2G - 1/8 BSPP male, G1/8
4G - 1/4 BSPP male, G1/4

3 - Circuit:

C1 - SPDT (Single Pole Double Throw) - 15A, 125/250 VAC
C2 - SPDT (Single Pole Double Throw) - 21A, 125/250 VAC

4 - Electrical Termination:

QC1 - Quick Connect 4.8 mm
QC2 - Quick Connect 6.35 mm

5 - Temperature Selection:

T1 - 85°C
T2 - 125°C

Note: Please see page 51 for other available options

T200 / T201

DESCRIPTION

The T200 / T201 series is ideally suited for both mobile and industrial application where space constraints require a small body size. The body is machined from a single piece of 304SS to provide added protection for the internal electronics. A piezoresistive ceramic sensor along with ASIC signal conditioning provides an excellent thermally compensated output.

FEATURES

- Piezoresistive Ceramic Sensor
- ASIC Signal conditioning

APPLICATIONS

- Industrial Equipment
- Safety Monitoring
- Mobile Equipment

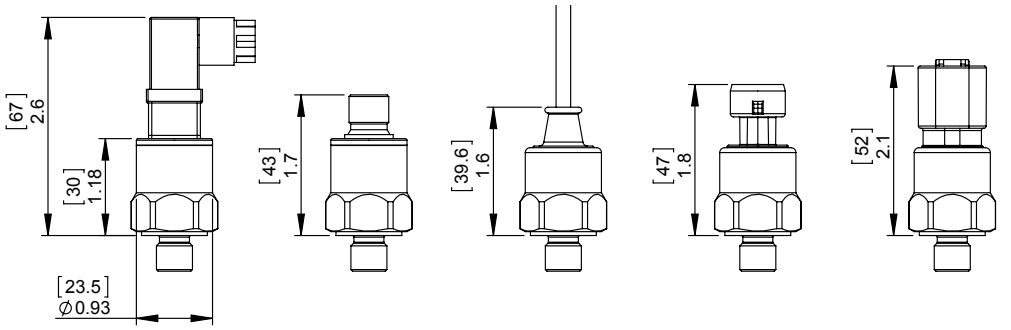
Specifications

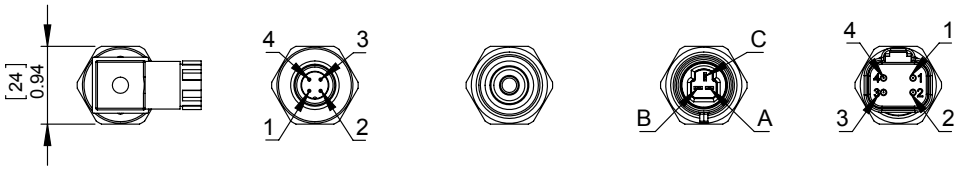
Accuracy	0.5% BFSL
Pressure Range	0 to 7,500 PSI (517 BAR)
Proof Pressure	200% FS (≤3000psi), 160% FS (>3000 psi)(207 BAR)
Burst Pressure	140-400% FS based on range (consult factory)
Long Term Drift	<0.3% FS @ 77°F (25°C)
Thermal Error	7.5 psi ≥ 100 psi: 0.01% FS/°F (0.018% FS/°C) 100 psi > 400 psi : 0.009% FS/°F (0.016% FS/°C) 400 psi ≥ 1000 psi: 0.011% FS/°F (0.019% FS/°C) 1000 psi > 3000 psi: 0.012% FS/°F (0.021% FS/°C) 3000 psi ≥ 7500 psi: 0.018% FS/°F (0.0028% FS/°C)
Compensated Temperatures	T200 Series: 32°F to 185°F (0°C to 85°C) T201 Series: -40°F to 257°F (-40°C to 125°C)
Operating Temperatures	-40°F to 257°F (-40°C to 125°C)
Storage Temperature Rating	-40°F to 275°F (-40°C to 135°C)
Process Connection	SS304
Wetted Materials	Ceramic Al_2O_3 NBR (Standard) or Optional: FKM,HNBR,EPDM
Vibration	10g (20-2000Hz) for ≤ 58 PSI (4 BAR) 20g (20 - 500Hz) for ranges > 58 PSI (4 BAR)
Shock	50g (11ms)
Supply Voltage	4 - 20mA : 8 - 30 VDC 0 - 10V : 12 - 30 VDC 0.5 - 4.5V : 4.5 - 5.5 VDC (ratiometric) 0.5 - 4.5V : 8 - 30 VDC 0 - 5V : 8 - 30 VDC 1 - 5V : 8 - 30 VDC 1 - 6V : 8 - 30 VDC 0.25 - 10.25 V : 8 - 30 VDC *Other supply voltage available upon request
Protection	Overvoltage, Short Circuit, Reverse Polarity Protection
Response Time	<1ms
Ingress Protection	IP67 (IP65 for M2 Electrical Connection)
Compliance	IEC/EN 61000-4-3(2006) 100V/m 80-1000MHz IEC/EN 61000-4-4(2004) Class 3 IEC/EN 61000-4-6(2006) 3Vrms 0.15-80MHz ROHS
Weight	0.15 lbs (0.07kg)

T200 / T201

ANFIELD SENSORS INC.

Dimensions





M2 M12 C79 / C158 CM DR

Connector	Output				
	4 - 20 mA		Voltage		
	Supply +	Supply -	Supply +	Common	Output +
M2	1	2	1	2	3
M12	1	3	1	3	4
C79 / C158	Red	Black	Red	Black	White
DR / CDP	2	1	2	1	4
CM	B	A	B	A	C

*** DR / CDP Pin 3 used for shield**

Ordering Information

1		2		3		4		5		6		7
T200	-	060P	-	G	-	3	-	M2	-	4M	-	N	-	T1

Model:

T200 Compensated Temperature Range 32°F to 185°F (0°C to 85°C)

T201 Compensated Temperature Range -40°F to 257°F (-40°C to 125°C)

Pressure Range:

- **001P** - 15 PSI
- **003P** - 30 PSI
- **010P** - 100 PSI
- **015P** - 150 PSI
- **030P** - 300 PSI
- **040P** - 400 PSI
- **060P** - 600 PSI
- **100P** - 1000 PSI
- **150P** - 1500 PSI
- **300P** - 3000 PSI
- **500P** - 5000 PSI
- **750P** - 7500 PSI**

Gauge Standard:

- **A** - Absolute
- **G** - Gauge
- **S** - Sealed Gauge

Output:

- **2** - 4 -20 mA, (2 wire)
- **3** - 0 - 10 V (3 wire)
- **4** - 0.5 - 4.5 V ratiometric
- **5** - 0-5 V (3 wire)
- **6** - 1 - 5 V (3 wire)
- **7** - 0.5 - 4.5 V (3 wire)
- **8** - 1 - 6V (3 wire)
- **9** - 0.25 - 10.25 V (3 wire)

Electrical Connection:

- **M2** - DIN 43650C (Mini DIN)
- **M12** - M12, 4 pin
- **C79** - Shielded Cable 79 inches (2 meter)
- **C158** - Shielded Cable 158 inches (4 meter)
- **DR** - Deutsch Receptacle DT04-4P
- **CDP** - 10" Cable, with Deutsch Plug (DT06-4S)
- **CM** - Packard, Metripack, 150 Series (PS2)

Process Connection:

- **4M** - 1/4" NPT male
- **4G** - 1/4" BSPP male, G1/4
- **4S** - 7/16-20 SAE male, with O-ring seal

Seal Material:

- **N** - NBR (Standard)
- **V** - VITON®
- **H** - HNBR
- **E** - EPDM

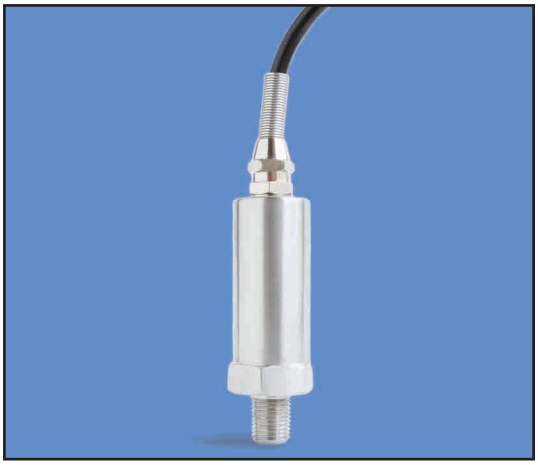
Accuracy:

- **T1** - 0.5% BSFL

** 7500 psi is only available with 7/16 SAE thread

*Other material and options available upon request. Custom design avaiblable. Please consult factory.

TC



DESCRIPTION

A compact thin film pressure transducer excellent for conditions where high proof and burst pressure is required. It features a hermetically sealed construction with all stainless steel body. There is a wide variety of electrical output and electrical connection options.

FEATURES

- Compact Style
- Temperature Compensation
- Stainless Steel Construction
- Hermetically sealed
- Stainless steel body

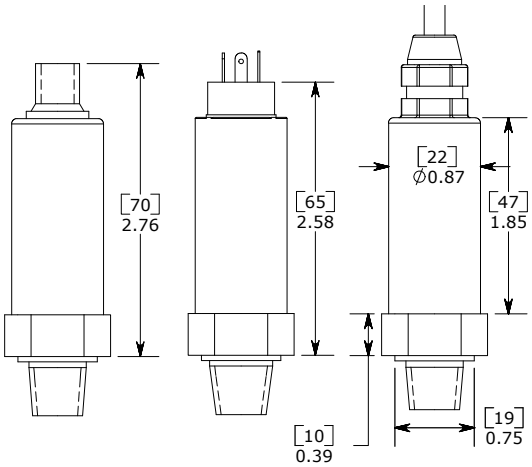
APPLICATIONS

- Road Maintenance Vehicles
- Cranes
- Automation process

Specifications

Accuracy	0.5% FS
Pressure Range	Vacuum to 10,000 PSI (700 BAR)
Proof Pressure	150% FS
Burst Pressure	300% FS
Fatigue Life	100,000,000 cycles
Long Term Drift	0.1%/FS/year for < 725 PSI (50 BAR) 0.2%/FS/year for ≥ 725 PSI (50 BAR)
Thermal Error	0.02%/FS/°C
Compensated Temperatures	32°F to 149°F (0°C to 65°C)
Operating Temperatures	-4°F to 176°F (-20°C to 80°C)
Storage Temperature Rating	-40°F to 257°F (-40°C to 125°C)
Process Connection	Standard: SS304 Optional: SS316
Vibration	10g (20-2000Hz) for ≤ 58 PSI (4 BAR) 20g (20 - 500Hz) for ranges > 58 PSI (4 BAR)
Shock	100g (11ms)
Voltage Output	0-5V, 0.5-4.5V, 0-10V
Supply Voltage	4 - 20mA : 12 - 32 VDC 0 - 10V : 16 - 36 VDC 0.5 - 4.5V : 4.5 - 5.5 VDC (ratiometric) 0.5 - 4.5V : 16 - 32 VDC 0 - 5V : 16 - 36 VDC
Max. Loop Resistance	500 Ω

Dimensions



ANFIELD SENSORS INC.

Ordering Information

Example

		1		2		3		4		5		6
TC	-	150P	-	A	-	4	-	M2	-	4M	-	A2

1 - Measuring Range:

Code	Description
100B	100 BAR
200B	200 BAR
350B	350 BAR
400B	400 BAR
600B	600 BAR
700B	700 BAR

OR

Code	Description
150P	1500 PSI
200P	2000 PSI
300P	3000 PSI
500P	5000 PSI
600P	6000 PSI
750P	7500 PSI
10KP	10000 PSI

2 - Gauge Standard:

A - Absolute
G - Gauge

3 - Output:

2 - 4 - 20 mA, 2 wire
3 - 0 - 10 V, 3 wire
4 - 0.5 - 4.5 V (ratiometric)
5 - 0 - 5.0 V
7 - 0.5 - 4.5 V (3 wire)

4 - Electrical Connection:

M2 - DIN 43650C (Mini DIN)
M2C79 - DIN 43650C (Mini DIN) with 79 inches (2 meters cable)
M12 - M12, 4 pin
C79 - Shielded Cable, 79 inches (2 meters)
C158 - Shielded Cable, 158 inches (4 meters)

5 - Process Connection:

4M - 1/4" NPT male
4G - 1/4" BSPP male, G1/4
4S - 7/16-20 SAE male, with O-ring seal

6 - Accuracy:

A2 - 0.5% FS

7 - Options (Omit if not required):

3 - 316 Stainless Steel Port

Note: Other ranges available. Please consult factory.

Anfield sensors Inc. has launched a new line of temperature switches which includes: S3TAF, S5TAF, S6TAF, S7TAF & S8TAF. These latest models include different features catered towards specific applications. This product line is designed and manufactured in North America to ensure a high quality product. Please consult factory for any special requirements.

S2TAF Series: It features a DIN 43650A connector with an internal sensing cavity body. This means that no probe is necessary for temperature detection which allows this switch to be used in tight spaces.

S3TAF Series: It features an IP67 rated body for improved environmental protection and is available with spade, flying leads or Deutsch connection. Our S3TAF features a 5/8" probe length with a variety of standard set points available for quick lead time.

S5TAF Series: This is one of our smallest temperature switches. It is designed for applications where a large differential (30%) is required.

S6TAF Series: It features a IP67 rated design with a wide selection of electrical connections readily available. It is designed for applications where large differential is required.

S7TAF Series: This is our fastest response temperature switch. It features a small differential with a high quality sensor. This is also one of our smallest temperature switch designs. This product is ideal for OEM applications.

S8TAF Series: It features an IP67 rated design, designed similarly to the S6TAF, but offers less than 4% differential value. We offer a wide selection of electrical connectors and a variety of standard set points.

TEMPERATURE SWITCH GUIDE

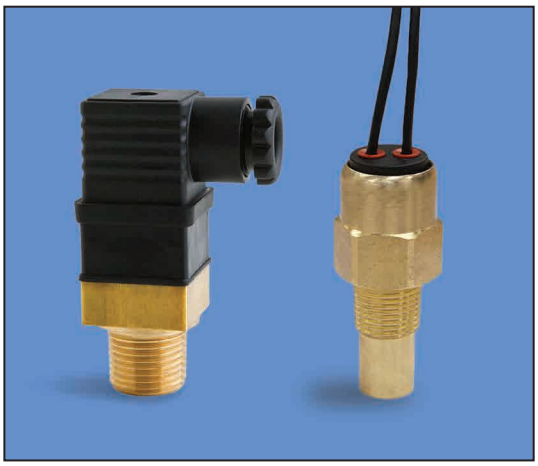
ANFIELD SENSORS INC.

	Models					
	S2TAF	**S3TAF**	**S5TAF**	**S6TAF**	**S7TAF**	**S8TAF**
Temperature Range	77°F - 293°F	77°F - 293°F	140°F 150°F 160°F 170°F 180°F 190°F 200°F 220°F	140°F 150°F 160°F 170°F 180°F 190°F 200°F 220°F	120°F 140°F 160°F 170°F 180°F	120°F 140°F 160°F 170°F 180°F
Electrical Rating	15 amp	15 amp	3 amp	3 amp	3 amp	3 amp
	Silver / Gold	Silver	Silver	Silver	Gold	Gold
Electrical Connection	DIN 43650A	Spade Flying Leads Deutsch	Flying Leads Weather Pack Deutsch	Spade Deustch DT04-2P Flying Lead Packard Metripack	Flying Leads Weather Pack Deutsch	Spade Deustch DT04-2P Flying Lead Packard Metripack
Differential	25°F	25°F	30% of Setpoint	30% of Setpoint	<4% of Setpoint	<4% of Setpoint
Probe	Not Available	Yes	Yes	Yes	Yes	Yes
IP Rating	IP65, IP67	IP65, IP67	IP65	IP65, IP67	IP65	IP65, IP67
Response Time	🐇	🐇	🐇🐇🐇	🐇🐇	🐇🐇🐇🐇	🐇🐇🐇

Legend:

Slowest Response = 🐇
Fastest Response = 🐇🐇🐇🐇

S2TAF / S3TAF



DESCRIPTION

The S2TAF is a bimetal temperature switch featuring an internal sensing cavity that allows for sensing of the fluid temperature without the need of a probe. It is most suitable for where areas is a tight constraint. The S3TAF temperature switch is ideal for high amperage rating with high ingress protection.

FEATURES

- Factory preset
- High current rating
- Reliable differential
- Compact size

APPLICATIONS

- Hydraulic reservoir safety switch
- Coolant temperature switch

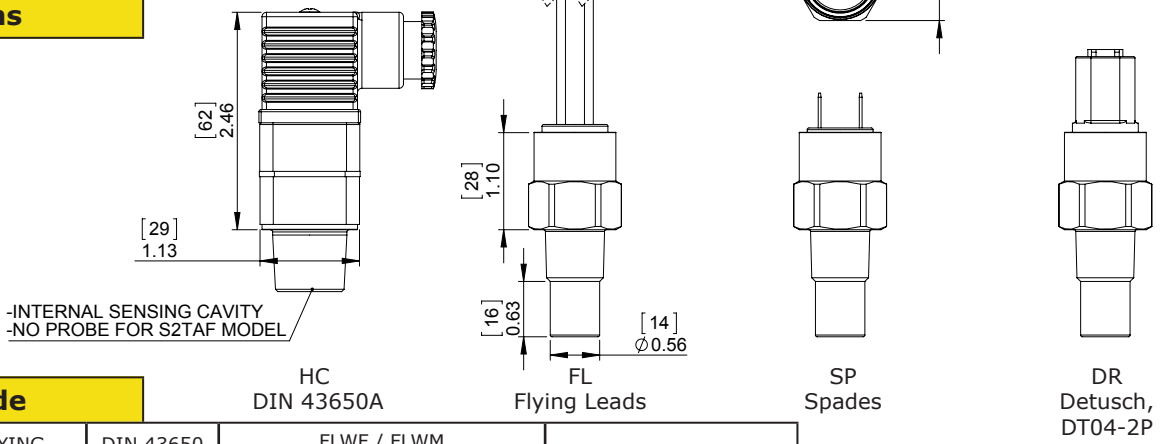
Specifications

Electrical	120 VAC - 15A Resistive 240 VAC - 10A Resistive 12VDC - 12A Resistive 24 VDC - 6A Resistive
Switch Type	Bimetal
Protection	DIN 43650A - IP65, Terminals - IP00 Flying Lead: IP67 Detusch DT04-2P: IP67
Repeatability	+/- 7°F
Temperature Range	77°F to 293°F (25 °C to 145°C)
Temperature Differential	25°F (12°C)
Temperature Exposure Limit	300°F (149°C)
Housing Material	Brass (Optional Stainless Steel)
Maximum Overpressure	S2TAF 4M, 6M Model 5000 PSI (345 BAR) S2TAF 8M, 8S Model 2000 PSI (138 BAR) S3TAF Models: 5000 PSI (345 BAR)
Weight	0.31 lbs (0.14 kg)

Temperature

Temperature Set point	
°F	°C
77 - 293	25 - 135

Dimensions



HC
DIN 43650A

FL
Flying Leads

SP
Spades

DR
Detusch,
DT04-2P

Wiring Code

CONTACT	FLYING LEADS	DIN 43650 TYPE	FLWF / FLWM FLCM / FLCF / FLPM / FLPF	FLDR / FLDP
COMMON	BLACK	PIN 1	PIN A	PIN 1
NORMALLY CLOSED	BLACK	PIN 2	PIN B	PIN 2
NORMALLY OPEN	BLACK	PIN 2	PIN B	PIN 2

S2TAF / S3TAF

Ordering Information

Factory Preset

	S2TAF or S3TAF	-	1 140F	-	2 4M	-	3 B	-	4 HC

1 - Temperature Selection:

Insert set point value XXX followed by: R, F.

Set Point	Direction	Description
XXXX	**R**	°F Rising Temperature
	F	°F Falling Temperature

2 - Thread Options:

Thread Description	S2TAF Model	S3TAF Model
	No Probe	5/8" Probe
1/4 NPT	**4M**	**4M10**
3/8 NPT	**6M**	**6M10**
1/2 NPT	**8M**	**8M10**
3/4-16 SAE with Viton O-ring seal	**8S**	**N/A**

* Other Thread and Probe options are available upon request. Consult factory for availability

3 - Circuit:

A - SPST (Normally Open)
B - SPST (Normally Closed)

4 - Electrical Termination:

S2TAF	S3TAF	
HC		- DIN 43650A - connector type
HN		- DIN 43650A 1/2" NPT Conduit (only available in SPST option)
	FL	- Flying Lead 18" long, 18 AWG
	FLWF	- Flying Lead Weatherpack connector, female, Tower, 10" long leads
	FLWM	- Flying Lead Weatherpack connector, male, Shroud, 10" long leads
	FLDP	- Flying Lead Deutsch connector, plug, 10" long leads
	FLDR	- Flying Lead Deutsch connector, receptacle, 10" long leads
	FLCM	- Flying Lead Metripack, male, 150 series, 10" long leads
	FLCF	- Flying Lead Metripack, female, 150 series, 10" long leads
	FLPM	- Flying Lead Metripack, male, 280 series, 10" long leads
	FLPF	- Flying Lead Metripack, female, 280 series, 10" long leads
	SP	- 1/4" Spade
	DR	- Integrated Detusch Receptacle - Mates with DT06-2S

*Other material and options available upon request. Please consult factory for details.

S5TAF / S7TAF

DESCRIPTION

The S5TAF and S7TAF model series are bimetallic temperature switches. The S5TAF series features a large temperature differential and the S7TAF series features a small temperature differential. The sensing element is designed to provide rapid temperature response.

FEATURES

- Temperature switch and sensor
- Compact size
- Low differential

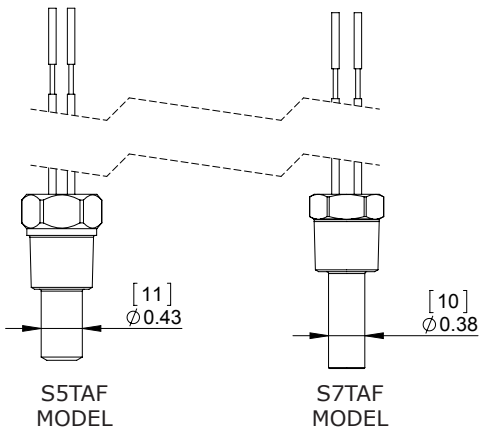
APPLICATIONS

- Coolant temperature switch/sensor
- Lubrication systems
- Oil reservoir temperature switch/sensor

Specifications

Model	S5TAF	S7TAF
Set Point Range (Factory Set)	130°F to 300°F (54°C to 150°C)	40°F to 300°F (4°C to 150°C)
Electrical	120/240 VAC - 3A Resistive 120/240 VAC - 2.5A Inductive 12/24 VDC - 3A Resistive 12/24 VDC - 2A Inductive	120/240 VAC - 3A Resistive 120/240 VAC - 2.5A Inductive 12/24 VDC - 3A Resistive 12/24 VDC - 2A Inductive
Contacts	Silver	Gold
Switch Type	Bimetal Snap Action	Bimetal Snap Action
Protection	IP65	IP65
Repeatability	+/- 7°F	+/- 7°F
Temperature Differential	Approximately 30% of Setpoint	Approximately <4% of Setpoint
Temperature Exposure Limit	325°F (162°C)	325°F (162°C)
Housing Material	Brass	Brass
Probe Length	3/4"	1/2" , 1" , 2"
Maximum Overpressure	5000 PSI (345 BAR)	5000 PSI (345 BAR)
Weight	0.15 lbs (0.06 kg)	0.15 lbs (0.06 kg)

Dimensions



Hex Size varies depending on thread and model. Please consult factory for details.

Probe length is listed on ordering information.

Wiring Code

CONTACT	FLYING LEADS	FLWF / FLWM FLCM / FLCF / FLPM / FLPF	FLDR / FLDP
COMMON	BLACK	PIN A	PIN 1
NORMALLY CLOSED	BLACK	PIN B	PIN 2
NORMALLY OPEN	BLACK	PIN B	PIN 2

S5TAF / S7TAF

ANFIELD SENSORS INC.

Ordering Information

	1		2		3		4		5
Factory Preset	**S5TAF or S7TAF**	-	**120R**	-	**4M08**	-	**A**	-	**SP**

1 Model Selection:

S5TAF - Approximately 30% of differential (see Specifications Table)

S7TAF - Approximately <4% of differential (see Specifications Table)

2 - Temperature Selection (Farenheit Rising):

S5TAF Model	S7TAF Model
130R	**120R**
140R	**140R**
150R	**160R**
160R	**170R**
170R	**180R**
180R	
190R	
200R	
220R	

*Other Setpoints are avaiable upon request. Consult factory for availability

3 - Thread Options:

Thread Description	S5TAF Model	S7TAF Model		
	3/4" Probe	1/2" Probe	1" Probe	2" Probe
1/4 NPT	**4M12**	**4M08**	**4M16**	**4M32**
3/8 NPT	**6M12**	**N/A**	**6M16**	**N/A**
1/2 NPT	**8M12**	**8M08**	**8M16**	**8M32**
3/4-16 SAE with Viton O-ring seal	**8S12**	**N/A**	**8S16**	**N/A**

*Other Thread and Probe options are available upon request. Consult factory for availability

4 - Circuit:

A - SPST (Normally Open)

B - SPST (Normally Closed)

5 - Electrical Termination:

FL - Flying Lead 18" long, (20 AWG for S5TAF) (18 AWG for S7TAF)

FLWF - Flying Lead Weatherpack connector, female, 10" long leads

FLWM - Flying Lead Weatherpack connector, male, 10" long leads

FLDP - Flying Lead Deutsch connector, plug, 10" long leads

FLDR - Flying Lead Deutsch connector, receptacle, 10" long leads

FLCM - Flying Lead, Metripack, male, 150 series, 10" long leads

FLCF - Flying Lead, Metripack, female, 150 series, 10" long leads

FLPM - Flying Lead Metripack 280 connector, male, 10" long leads

FLPF - Flying Lead Metripack 280 connector, female, 10" long leads

*Other material and options available upon request. Please consult factory for details.

S6TAF / S8TAF

DESCRIPTION

The S6TAF and S8TAF model series are bimetallic temperature switches. The S6TAF series features a large temperature differential and the S8TAF series features a small temperature differential. The sensing element is designed to provide rapid temperature response.

FEATURES

- High ingress protection
- Compact size
- Option of low and high differential
- No exposed potting compound

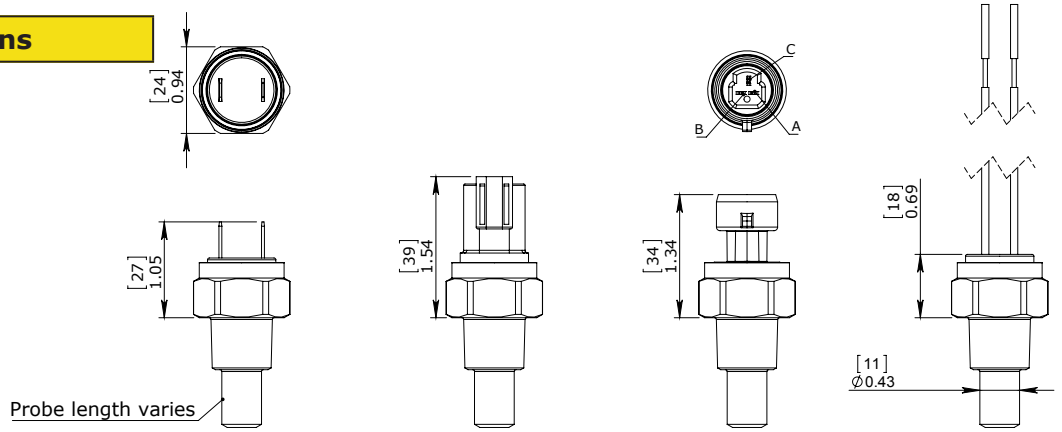
APPLICATIONS

- Coolant temperature switch/sensor
- Fan
- Oil reservoir temperature switch/sensor

Specifications

Model	S6TAF	S8TAF
Set Point Range (Factory Set)	130°F to 300°F (54°C to 150°C)	40°F to 300°F (4°C to 150°C)
Electrical	120/240 VAC - 3A Resistive 120/240 VAC - 2.5A Inductive 12/24 VDC - 3A Resistive 12/24 VDC - 2A Inductive	120/240 VAC - 3A Resistive 120/240 VAC - 2.5A Inductive 12/24 VDC - 3A Resistive 12/24 VDC - 2A Inductive
Contacts	Silver	Gold
Switch Type	Bimetal Snap Action	Bimetal Creep Action
Protection	IP67: Deutsch, Packard, Flying Lead IP65: Spade (Except exposed terminals)	IP67: Deutsch, Packard, Flying Lead IP65: Spade (Except exposed terminals)
Temperature Differential	Approximately 30% of Setpoint	Approximately <4% of Setpoint
Temperature Exposure Limit	325°F (162°C)	325°F (162°C)
Housing Material	Brass	Brass
Probe Length	5/8", 1"	5/8", 1"
Maximum Overpressure	5000 PSI (345 BAR)	5000 PSI (345 BAR)
Weight	0.11 lbs (0.05 kg)	0.11 lbs (0.05 kg)

Dimensions



Wiring Code

CONTACT	FLYING LEADS	FLWF / FLWM FLCM / FLCF / FLPM / FLPF	FLDR / FLDP	CM
COMMON	BLACK	PIN A	PIN 1	PIN A
NORMALLY CLOSED	BLACK	PIN B	PIN 2	PIN B
NORMALLY OPEN	BLACK	PIN B	PIN 2	PIN B

ANFIELD SENSORS INC.

Ordering Information

	1		2		3		4		5
Factory Preset	**S6TAF or S8TAF**	-	**120R**	-	**4M10**	-	**A**	-	**SP**

1 Model Selection:

S6TAF - Approximately 30% of differential (see Specifications Table)

S8TAF - Approximately <4% of differential (see Specifications Table)

2 - Temperature Selection (Farenheit Rising):

S6TAF Model	S8TAF Model
130R	**120R**
140R	**140R**
150R	**160R**
160R	**170R**
170R	**180R**
180R	
190R	
200R	
220R	

*Other Setpoints are available upon request. Consult factory for availability

3 - Thread Options:

Thread Description	S6TAF Model		S8TAF Model	
	5/8" Probe	1" Probe	5/8" Probe	1" Probe
1/4 NPT	**4M10**	**4M16**	**4M10**	**4M16**
3/8 NPT	**6M10**	**6M16**	**6M10**	**6M16**
1/2 NPT	**8M10**	**8M16**	**8M10**	**8M16**
3/4-16 SAE with Viton O-ring seal	**8S10**	**8S16**	**8S10**	**8S16**

*Other Thread and Probe options are avaiable upon request. Consult factory for availability

4 - Circuit:

A - SPST (Normally Open)

B - SPST (Normally Closed)

5 - Electrical Termination:

SP - 1/4" Spade

DR - Deutsch Receptacle, DT04-2P

CM - Packard, Metripack 150 Series (3 pin)

FL - Flying Lead 18" long, (20 AWG for S5TAF) (18 AWG for S7TAF)

FLWF - Flying Lead Weatherpack connector, female, 10" long leads

FLWM - Flying Lead Weatherpack connector, male, 10" long leads

FLDP - Flying Lead Deutsch connector, plug, 10" long leads

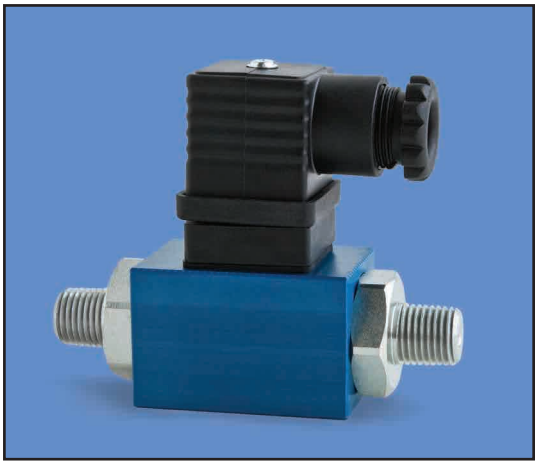
FLDR - Flying Lead Deutsch connector, receptacle, 10" long leads

FLPM - Flying Lead Metripack 280 connector, male, 10" long leads

FLPF - Flying Lead Metripack 280 connector, female, 10" long leads

*Other material and options available upon request. Please conuslt factory for details

DSPA / DSPF



DESCRIPTION

An economical differential switch utilizing a simple and reliable design. It is used for many monitoring applications such as a filter change indicator. Constructed of an anodized aluminium body with steel ports for durability.

FEATURES

- Snap action micro switch
- Factory set or field adjustable
- Diaphragm design

APPLICATIONS

- Filter element monitoring
- Fluid control
- Water treatment applications

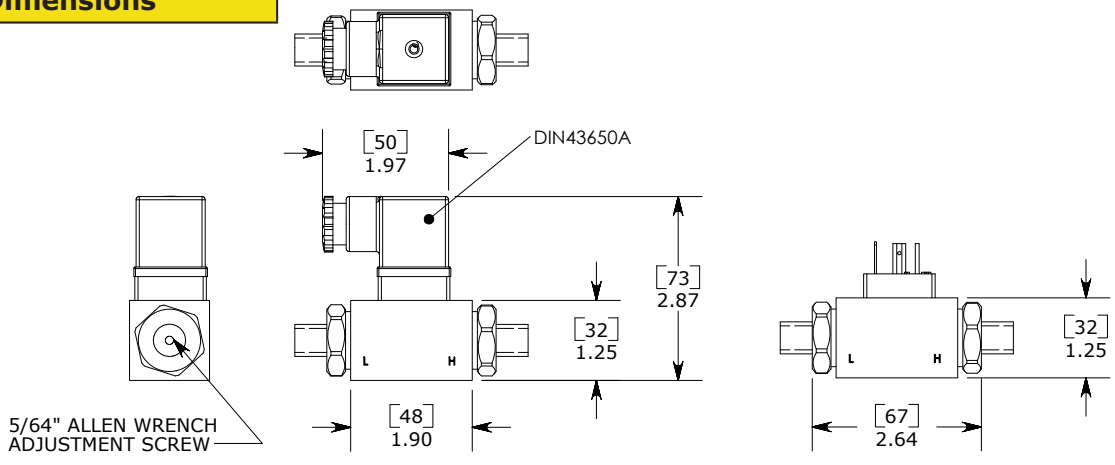
Specifications

Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC]
Switch Type	Snap Action
Protection	DIN 43650A - IP65, Terminals - IP00
Temperature Range	-20°F to 180°F (-29°C to 82°C) Nitrile
Mechanical Range	1,000,000 Cycles @ 75 PSI (5.2 BAR)
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM, HNBR
Housing Material	Anodized Aluminum Housing
Maximum Overpressure	500 PSI (34 BAR)
Repeatability	+/- 2% of full set point range at 20°C (68°F)
Differential	10 - 30% of setting
Weight	0.75 lbs (0.35 kg)

Pressure Range

Model	Adjustment Range	
	PSI	BAR
1	10 - 30	0.7 - 2.0
2	25 - 60	1.7 - 4.0

Dimensions



HC
DIN 43650A

H
Din Male Only

Wiring Code

CONTACT	DIN 43650 TYPE
COMMON	PIN 1
NORMALLY CLOSED	PIN 2
NORMALLY OPEN	PIN 3

DSPA / DSPF

Ordering Information

		1		2		3		4		5 (Optional)
Field Adjustable	**DSPA**	-	**2**	-	**4M-4M**	-	**C**	-	**HC**	-	**1**
Factory Preset	**DSPF**	-	**30F**	-	**4M-4M**	-	**C**	-	**HC**	-	**1**

1 - Pressure Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	PSI	BAR
1	10 - 30	0.7 - 2.0
2	25 - 60	1.7 - 4.0

OR

Insert set point value XXX followed by: R, F, BR, or BF

Set Point	Direction	Description
XXXX	**R**	PSI Rising Pressure
	F	PSI Falling Pressure
	BR	BAR Rising Pressure
	BF	BAR Falling Pressure

2 - Thread Options for both process connections:

4M - 1/4 NPT male
4G - 1/4 BSPP male, G1/4

3 - Circuit:

C - SPDT (Single Pole Double Throw : Normally Open and Normally Closed)

4 - Electrical Termination:

H - DIN 43650A - connector type - male half only (only available in SPDT option)
HC - DIN 43650A PG9/PG11 - connector type (only available in SPDT option)
HN - DIN 43650A 1/2" NPT Conduit (only available in SPDT option)

5 - Options (Omit if not required):

1 - Viton® Diaphragm
2 - EPDM Diaphragm
4 - HNBR Diaphragm
7 - Gold Contact, Snap Action Microswitch @ 20 mA / 12 VDC
8 - 10 amp, Snap Action Microswitch @ 10(2) 125 VAC (inductive), 6(2) 250 VAC (inductive)

Note: Please see page 51 for other available options

SVA / SVF

* UL available for certain models

DESCRIPTION

A compact vacuum switch utilizing a high quality snap action micro switch for applications in which price and size are of concern. It is used for pneumatic, water and low pressure applications. Its modular design allows for a variety of electrical and mechanical terminations.

FEATURES

- Snap action micro switch
- Factory set or field adjustable
- Diaphragm design
- WRAS approved EPDM diaphragms available

APPLICATIONS

- Vacuum generators
- Industrial automation
- Pick and place units
- Engine load monitoring

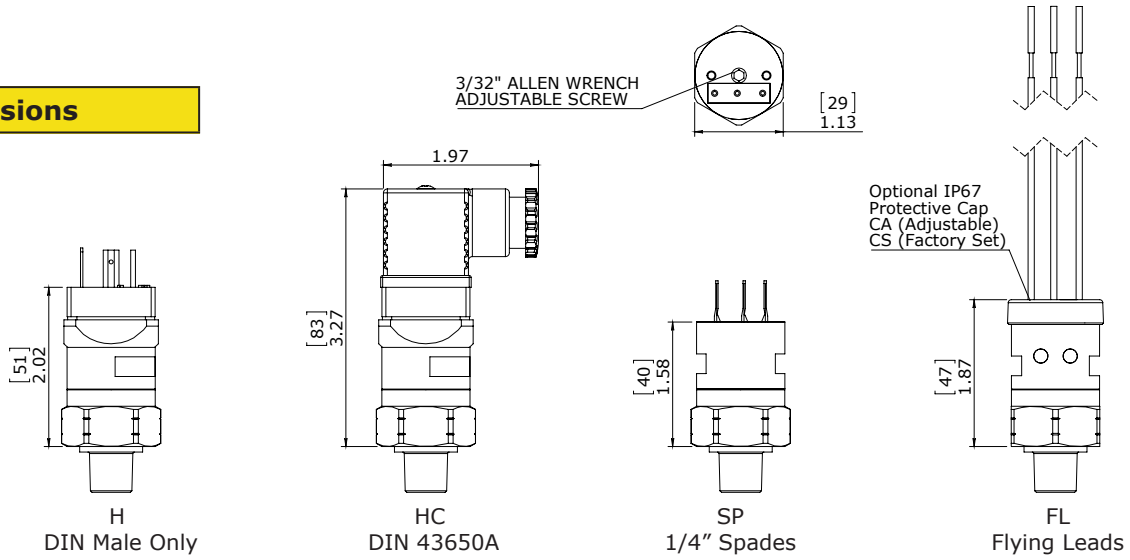
Specifications

Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC] Optional: 10A or Gold Contact
Switch Type	Snap Action
Protection	DIN 43650A - IP65, Terminals - IP00
Temperature Range	-20°F to 180°F (-29°C to 82°C) Nitrile
Mechanical Range	1,000,000 Cycles @ 20 inHg
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM
Housing Material	Brass (Optional Stainless Steel)
Maximum Overpressure	350 PSI (25 BAR)
Repeatability	+/- 2% of full set point range at 20°C (68°F)

Pressure Range

MODEL	Adjustment Range	
	inHg	Millibar
1	5-30"	170 - 1020

Dimensions



H
DIN Male Only

HC
DIN 43650A

SP
1/4" Spades

FL
Flying Leads

Wiring Code

CONTACT	FLYING LEADS	DIN 43650 TYPE	FLWF / FLWM FLCM / FLCF / FLPM / FLPF		FLDR / FLDP	
			SPDT MODEL	SPST MODEL	SPDT MODEL	SPST MODEL
COMMON	BLACK	PIN 1	PIN A	PIN A	PIN A	PIN 1
NORMALLY CLOSED	BLUE	PIN 2	PIN C	PIN B	PIN C	PIN 2
NORMALLY OPEN	RED	PIN 3	PIN B	PIN B	PIN B	PIN 2

SVA / SVF

Ordering Information

	1	2	3	4	5 (Optional)
Field Adjustable	SVA -	1 -	2M -	C -	HC -	1
	1	2	3	4	5 (Optional)
Factory Preset	SVF -	25F -	2M -	C -	HC -	1

1 - Pressure Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	inHg	Millibar
1	5 - 30"	170 - 1020

OR

Insert set point value XXX followed by: R, F, MR, or MF

Set Point	Direction	Description
XXXX	**R**	inHg Rising Vacuum
	F	inHg Falling Vacuum
	MR	Millibar Rising Vacuum
	MF	Millibar Falling Vacuum

2 - Thread Options:

2M - 1/8 NPT male
4M - 1/4 NPT male
2G - 1/8 BSPP male, G1/8
4G - 1/4 BSPP male, G1/4
4S - 7/16-20 SAE male, with O-ring seal
6S - 9/16-18 SAE male, with O-ring seal

3 - Circuit:

A - SPST (Normally Open)
B - SPST (Normally Closed)
C - SPDT (Single Pole Double Throw)

4 - Electrical Termination:

H - DIN 43650A - connector type - male half only (only available in SPDT option)
HC - DIN 43650A - connector type (only available in SPDT option)
HN - DIN 43650A 1/2" NPT Conduit (only available in SPDT option)
FL - Flying Lead 18" long, 18 AWG
FLWF - Flying Lead Weatherpack connector, female, Tower, 10" long leads
FLWM - Flying Lead Weatherpack connector, male, Shroud, 10" long leads
FLDP - Flying Lead Deutsch connector, plug, 10" long leads
FLDR - Flying Lead Deutsch connector, receptacle, 10" long leads
FLCM - Flying Lead Metripack, male, 150 series, 10" long leads
FLCF - Flying Lead Metripack, female, 150 series, 10" long leads
FLPM - Flying Lead Metripack, male, 280 series, 10" long leads
FLPF - Flying Lead Metripack, female, 280 series, 10" long leads
SP - 1/4" Spade

5 - Options (Omit if not required):

1 - Viton® Diaphragm
2 - EPDM Diaphragm
3 - 316 Stainless Steel Housing
4 - HNBR Diaphragm
6 - Lead Free Brass
7 - Gold Contact, Snap Action Microswitch @ 20 mA / 12 VDC
8 - 10 amp, Snap Action Microswitch @ 10(2) 125 VAC (inductive), 6(2) 250 VAC (inductive)
20 - Seal adjustment Screw
OC - Oxygen Cleaned Switches
CA - IP67 rated protective cover with a removable plug (For Adjustable Switches, SVA Flying lead model)
CS - IP67 rated protective cover (For Factory Set Switches, SVF Flying lead model)

Note: Please see page 51 for other available options

SPVL / SPVF

DESCRIPTION

This compact, simple vacuum switch is suitable for many applications. It is designed for easy installation and quick access to the set point. It is available in factory set or adjustable ranges.

FEATURES

- Gold plated silver alloy contacts
- High current ratings
- Works well with extreme temperature
- Economical

APPLICATIONS

- Vacuum generators
- Industrial automation
- Engine load monitoring

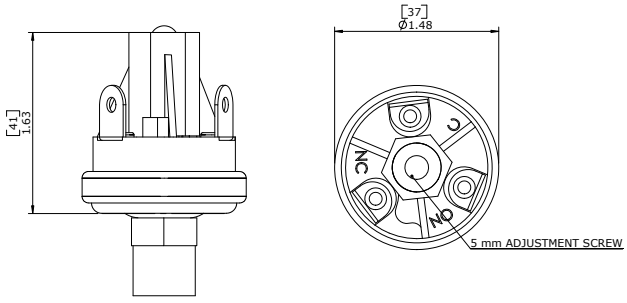
Specifications

Electrical	Resistive	Inductive
	15 AMP - 6 VDC	1 AMP - 120 VAC
	8 AMP - 12 VDC	0.5 AMP - 240 VAC
	4 AMP - 24 VDC	
Switch Type	Blade Contact	
Protection	Terminals - IP00	
Temperature Range	-40°F to 248°F (-40°C to 120°C)	
Diaphragm Material	Standard: Flurosilicone elastomer	
Housing Material	Brass, Glass Reinforced Polyester (Optional Stainless Steel)	
Maximum Operating Pressure	30 inHg Vacuum	
Burst Pressure	150 PSI (10.3 BAR)	
Weight	0.14 lbs (0.06 kg)	

Pressure Range

Model	Adjustment Range	
	inHg	Millibar
1	1.1 - 3	37 - 101
2	4 - 8	135 - 270
3	9 - 17	305 - 575
4	18 - 22	610 - 745

Dimensions



Wiring Code

CONTACT	FLYING LEADS	DIN 43650 TYPE	FLWF / FLWM FLCM / FLCF / FLPM / FLPF		FLDR / FLDP	
			SPDT MODEL	SPST MODEL	SPDT MODEL	SPST MODEL
COMMON	BLACK	PIN 1	PIN A	PIN A	PIN A	PIN 1
NORMALLY CLOSED	BLUE	PIN 2	PIN C	PIN B	PIN C	PIN 2
NORMALLY OPEN	RED	PIN 3	PIN B	PIN B	PIN B	PIN 2

SPVL / SPVF

ANFIELD SENSORS INC.

Ordering Information

	1	2	3	4	5
Field Adjustable	SPVL -	2 -	2M -	A -	SP - 2
Factory Preset	SPVF -	17F -	2M -	A -	SP - 2

1 - Pressure Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	inHg	Millibar
1	1.1 - 3	37 - 101
2	4 - 8	135 - 270
3	9 - 17	305 - 575
4	18 - 22	610 - 745

OR

Insert set point value XXX followed by: R, F, MR, or MF

Set Point	Direction	Description
XXXX	**R**	inHg Rising Vacuum
	F	inHg Falling Vacuum
	MR	Millibar Rising Vacuum
	MF	Millibar Falling Vacuum

2 - Thread Options:

- **2M** - 1/8 NPT male
- **4M** - 1/4 NPT male
- **2G** - 1/8 BSPP male, G1/8
- **4G** - 1/4 BSPP male, G1/4

3 - Circuit:

- **A** - SPST (Normally Open)
- **B** - SPST (Normally Closed)

4 - Electrical Termination:

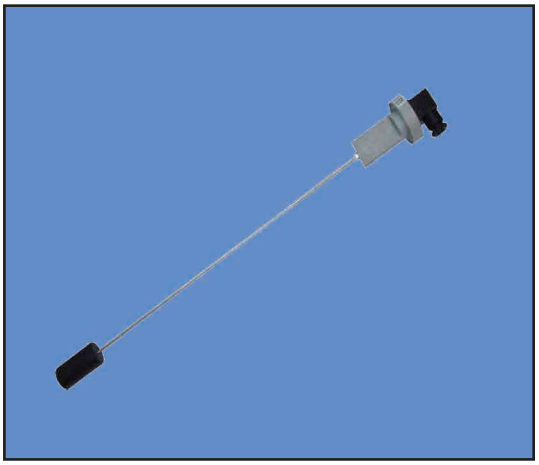
- **FL** - Flying Lead 18” long, 18 AWG
- **FLWF** - Flying Lead Weatherpack connector, female, Tower, 10” long leads
- **FLWM** - Flying Lead Weatherpack connector, male, Shroud, 10” long leads
- **FLDP** - Flying Lead Deutsch connector, plug, 10” long leads
- **FLDR** - Flying Lead Deutsch connector, receptacle, 10” long leads
- **FLCM** - Flying Lead Metripack, male, 150 series, 10” long leads
- **FLCF** - Flying Lead Metripack, female, 150 series, 10” long leads
- **FLPM** - Flying Lead Metripack, male, 280 series, 10” long leads
- **FLPF** - Flying Lead Metripack, female, 280 series, 10” long leads
- **SP** - 1/4” Spade
- **TS** - Terminal Screws, #8-32

5 - Options (Omit if not required):

- **2** - EPDM Diaphragm
- **3** - 316 Stainless Steel Housing
- **20** - Seal adjustment Screw
- **30** - Rubber Boot - Removable

Note: Please see page 51 for other available options

LF1



DESCRIPTION

This single float level switch is suitable for the use of monitoring maximum or minimum fluid levels. The nylon glass body is strong and resistant to chemicals. Rod height can be easily cut to length for fast integration into your system.

FEATURES

- Rapid level float switch
- User can easily customize length of rod
- Can be used in the presence of dirty liquids or ferrous particles due to lack of magnet
- Materials suitable for high temperatures

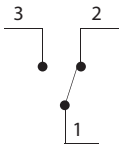
APPLICATIONS

- Hydraulic unit
- Coolant tanks
- Storage tanks

Specifications

Electrical	1A, 20W, 20VA, 150 VDC/VAC 0.5A, 30W, 500VDC
Switch Type	Reed Switch
Protection	DIN 43650 PG9 - IP65
Temperature Range	-20°F to 176°F (-29°C to 80°C)
Rod Material	Stainless Steel (Optional Reinforced Rods Brass)
Rod Length	500 mm or 1000 mm
Maximum Pressure	145 PSI (10 BAR)
Weight	0.5 lbs (0.25 kg)

Single Pole Double Throw Contact



Ordering Information

	1		2		3		4
Example	**LF1**	-	**R**	-	**F3**	-	**S2**	-	**A500**

1 - Rod Type:

Blank - Stainless Steel Standard Rod
R - Reinforced Rod (Brass material)

2 - Thread Options:

F3 - 3 Hole Flange
T3 - 1-1/4 NPT

3 - Circuit:

S2 - SPDT (Single Pole Double Throw)

4 - Control Rod Length:

A500 - Standard rod length 500 mm
A1000 - Standard rod length 1000 mm

* Rods can be cut to specific length. Please see pg 38 for cutting chart

LF2

DESCRIPTION

This double float level switch is ideal for monitoring both maximum and minimum fluid levels. This rapid fluid level switch is suitable for use with contaminated fluid. Rod height can be easily cut to length for fast implementation into your system. It has two rods to monitor two fluid levels.

FEATURES

- Rapid level float switch
- User can easily customize length of rod
- Can be used in the presence of dirty liquids or ferrous particles due to lack of magnet
- Materials suitable for high temperatures

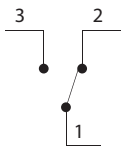
APPLICATIONS

- Process tank
- Batch monitoring
- Storage tanks

Specifications

Electrical	1A, 20W, 20VA, 150 VDC/VAC 0.5A, 30W, 500VDC
Switch Type	Reed Switch
Protection	Junction Box - IP65
Temperature Range	-20°F to 176°F (-29°C to 80°C)
Rod Material	Stainless Steel (Optional Reinforced Rods Brass)
Rod Length	500 mm or 1000 mm
Maximum Pressure	145 PSI (10 BAR)
Weight	0.9 lbs (0.4 kg)

Single Pole Double Throw Contact



Ordering Information

	1	2	3	4	5
Example	**LF2** -	**R** -	**F3** -	**S2-S2** -	**A500** -	**B400**

1 - Rod Type:

BLANK - Stainless Steel Standard Rod
R - Reinforced Rod (Brass material)

2 - Thread Options:

F3 - 3 Hole Flange
T3 - 1-1/4 NPT

3 - Circuit:

S2 - S2 - SPDT (Single Pole Double Throw)

4 - Lower Control Rod Length:

A500 - Standard rod length 500 mm
A1000 - Standard rod length 1000 mm

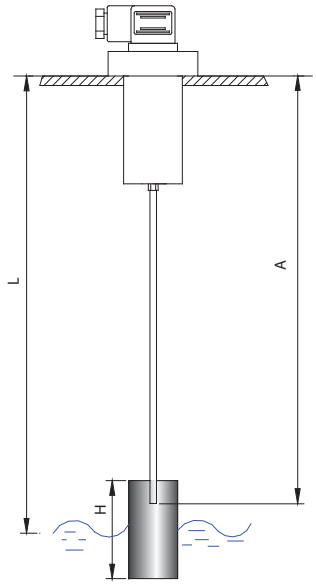
5 - Upper Control Rod Length:

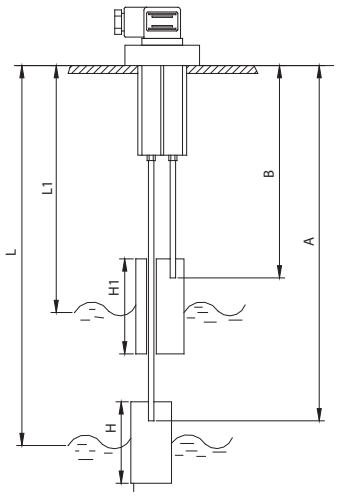
B400 - Standard rod length 400 mm
B900 - Standard rod length 900 mm

* Minimum distance between the two points to be controlled is 90mm

** Rods can be cut to specific length. Please see pg 38 for cutting chart

LEVEL SWITCH CHART





Control Value L (mm)	Rod Cutting For Min Level A (mm)	Control Value L1 (mm)	Rod Cutting for Max Level B (mm)
120	116		
140	137		
160	158		
220	221	120	131
240	242	140	152
260	263	160	173
280	284	180	194
300	305	200	215
320	326	220	236
340	347	240	257
360	368	260	278
380	389	280	299
400	410	300	320
420	431	320	341
440	452	340	362
460	473	360	383
480	494	380	404
500	515	400	425
520	511	420	421
540	532	440	442
560	553	460	463
580	574	480	484
600	595	500	505
620	616	520	526
640	637	540	547
660	658	560	568
680	679	580	589
700	700	600	610
720	721	620	631
740	742	640	652
760	763	660	673
780	784	680	694
800	805	700	715
820	826	720	736
840	847	740	757
860	868	760	778
880	889	780	799
900	910	800	820
920	931	820	841
940	952	840	862
960	973	860	883
980	994	880	904
1000	1015	900	925

H = 60 for L = 120 to 500
H = 90 for L = 501 to 1000
H1= 70 for L1 = 120 to 1000

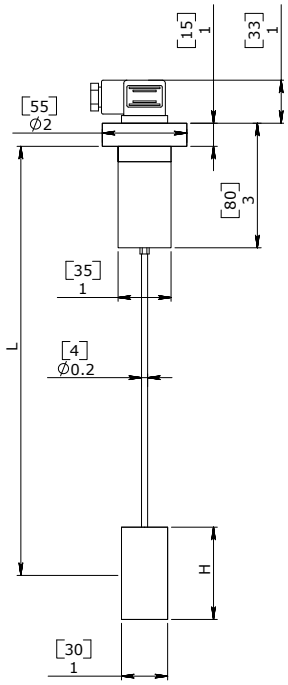
LEVEL SWITCH SPECIFICATION

ANFIELD SENSORS INC.

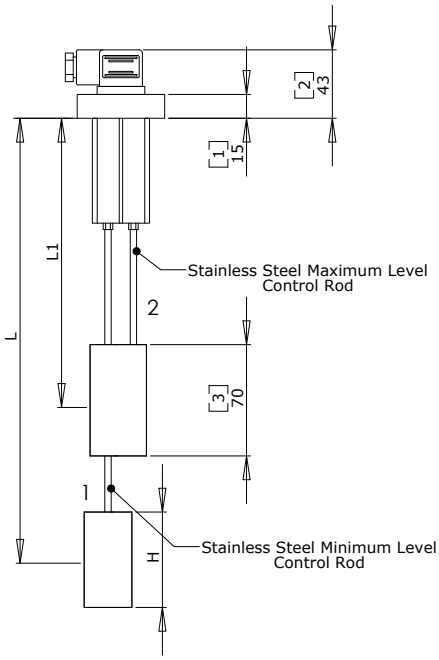
Wiring Code - LF1	
CONTACT	DIN 43650 TYPE
COMMON	PIN 1
NORMALLY CLOSED	PIN 2
NORMALLY OPEN	PIN 3

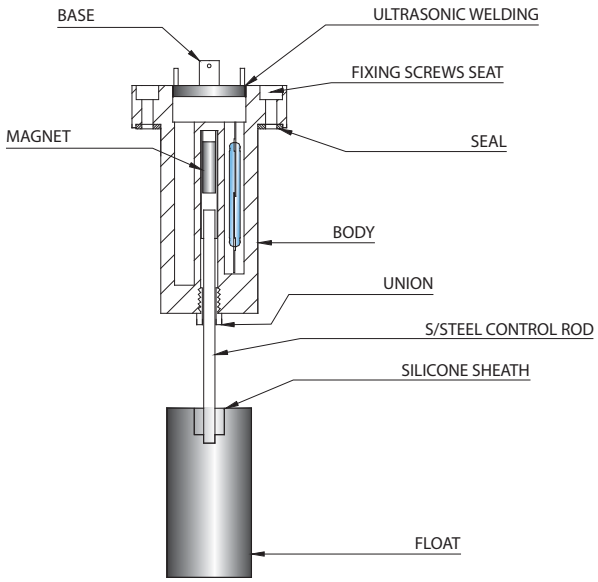
Wiring Code - LF2	
CONTACT	JUNCTION BOX
COMMON	YELLOW
NORMALLY CLOSED	BLUE
NORMALLY OPEN	WHITE

LF1

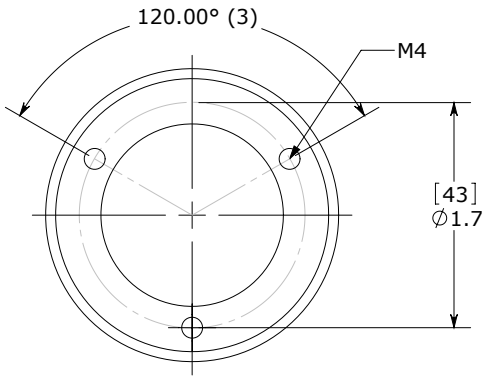


LF2

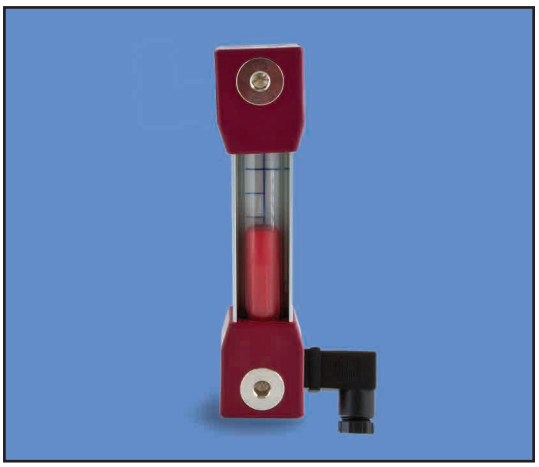




F3 Mounting Pattern:



VE



DESCRIPTION

The VE series is a sight gauge level switch that can be installed on the side of a reservoir. It enables an operator to visually identify the liquid level and to generate an electrical signal for low or high level fluid detection. This easy to install switch is affordable and reliable. It is available in two different lengths.

FEATURES

- Compact size
- Easy to install
- Visual indicator

APPLICATIONS

- Water tank
- Hydraulic units
- Level monitoring

Specifications

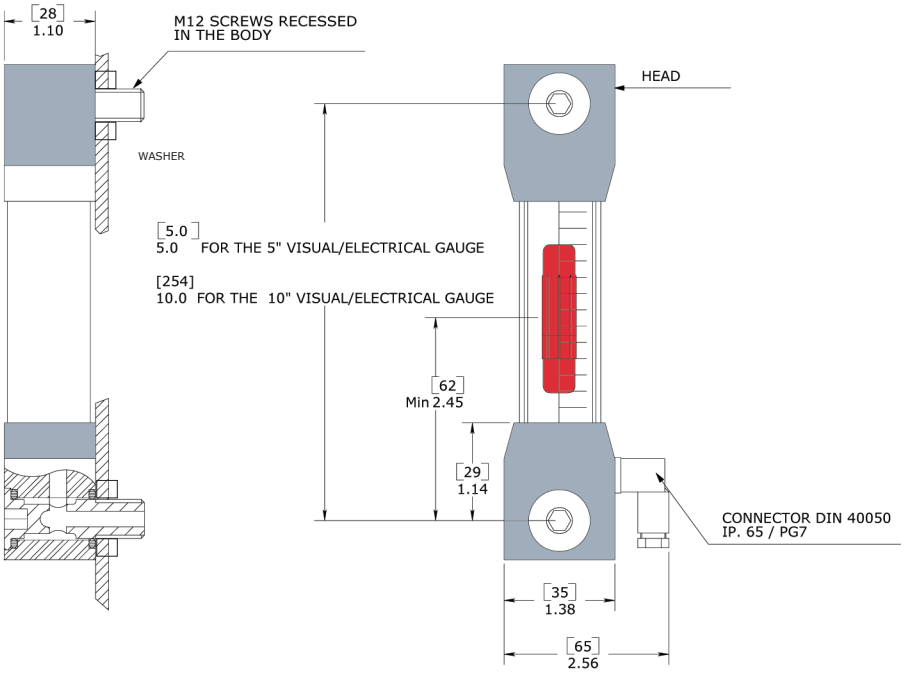
Electrical	1A, 20W, 20 VA. 150 VDC/VAC
Electrical Connection	DIN 40050
Protection	IP65
Temperature Range	-4°F to 158°F (-20°C to 70°C)
Tube Material	Methacrylate Tube
Mounting Method	M12 Screws
Maximum Overpressure	72.5 PSI (5 BAR)
Weight	0.5 lbs (0.25 kg)

Wiring Code

CONTACT	DIN 40050
COMMON	PIN 3
NORMALLY CLOSED	PIN 2
NORMALLY OPEN	PIN 1

* Reference to in presence of fluid

Dimensions



Ordering Information

Description	5” Visual/Electrical Gauge	10” Visual/Electrical Gauge
Single Pole Double Throw	**VE-127-M12-SPDT**	**VE-254-M12-SPDT**
Single Pole Double Throw with Temperature Probe	**VE-127-M12-SPDT-T**	**VE-254-M12-SPDT-T**

VEC

DESCRIPTION

The VEC series is a sight gauge level switch with an optional temperature detection. This enables an operator to be able to visually identify the liquid level, provide an electrical signal for low or high level fluid detection as well as monitor the temperature in a reservoir.

FEATURES

- Compact size
- Easy to install
- Economical

APPLICATIONS

- Water tank
- Hydraulic units
- Level monitoring

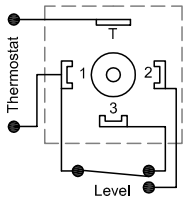
Specifications

Electrical	1A, 20W, 20 VA, 150VDC/VAC
Electrical Connection	DIN 40050
Protection	IP65
Temperature Range	-4°F to 176°F (-20°C to 80°C)
Tube Material	TR 55 LX
Mounting Method	M12 Screws
Seal Material	Standard: NBR O-ring Optional: Viton
Maximum Pressure	72.5 PSI (5 BAR)
Weight	0.47 lbs (0.23 kg)

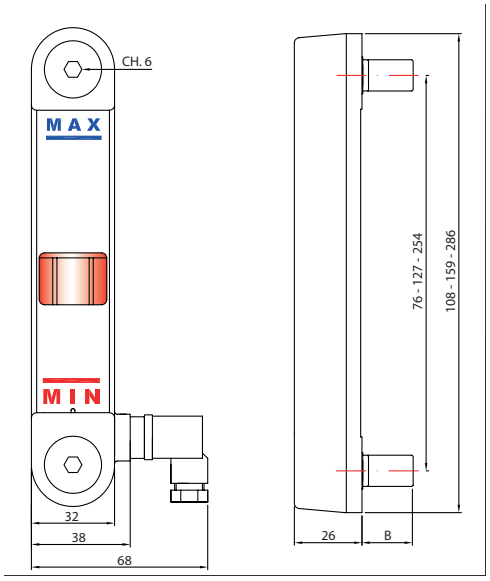
Wiring Code

CONTACT	DIN 40050
COMMON	PIN 1
NORMALLY CLOSED	PIN 3
NORMALLY OPEN	PIN 2
THERMOSTAT	Ground

* Reference to in absence of fluid



Dimensions



Ordering Information

1 - Model Series

VEC - With electrical output

2 - Body Length:

127 - 127 mm
254 - 254 mm

3 - Screw Selection:

M12 - M12 thread, nickel plated brass

4 - Electrical Configuration for Level (Only for VEC model):

SPDT - Single Pole Double Throw

5 - Thermostat Factory set (Optional):

BLANK - No Thermostat
122NO - 122°F (50°C), Normally Open
122NC - 122°F (50°C), Normally Closed
140NO - 140°F (60°C), Normally Open
140NC - 140°F (60°C), Normally Closed
158NO - 158°F (70°C), Normally Open
158NC - 158°F (70°C), Normally Closed
176NO - 176°F (80°C), Normally Open
176NC - 176°F (80°C), Normally Closed

5 - Option (Omit if not required):

1 - Viton

OPTIONS - DESCRIPTION

Ordering Information

2 - Thread Options:

- **2M** - 1/8 NPT male
- **4M** - 1/4 NPT male
- **2G** - 1/8 BSPP male, G1/8
- **4G** - 1/4 BSPP male, G1/4
- **4GT** - 1/4 BSPT tapered male, R1/4
- **4S** - 7/16-20 SAE male, with O-ring seal
- **4SLN** - 7/16-20 SAE male, with O-ring seal, adjustable
- **6S** - 9/16-18 SAE male, with O-ring seal
- **8S** - 3/4 - 16 SAE male, with O-ring seal
- **6M** - 3/8 NPT male
- **8M** - 1/2 NPT male
- **M10** - M10 X 1.0 male
- **M12** - M12 X 1.5 male

4 - Electrical Termination:

- **H** - DIN 43650A - connector type - male half only (only available in SPDT option)
- **HC** - DIN 43650A - connector type (only available in SPDT option)
- **HC-5A** - DIN 43650A - connector type with light 12 VDC
- **HC-5B** - DIN 43650A - connector type with light 24 VDC
- **HC-5C** - DIN 43650A - connector type with 110/230 VAC
- **HR** - 90 Degree DIN 43650A - connector type - male half only (only available in SPDT option)
- **HCR** - 90 Degree DIN 43650A - connector type (only available in SPDT option)
- **HN** - DIN 43650A 1/2" Female Conduit (only available in SPDT option)
- **HNR** - DIN 43650A 1/2" Female Conduit (only available in SPDT option)
- **FL** - Flying Lead 18" long, 18 AWG
- **FLWF** - Flying Lead Weatherpack connector, female, Tower, 10" long leads
- **FLWM** - Flying Lead Weatherpack connector, male, Shroud, 10" long leads
- **FLDP** - Flying Lead Deutsch connector, plug, 10" long leads (male)
- **FLDR** - Flying Lead Deutsch connector, receptacle, 10" long leads (female)
- **FLCM** - Flying Lead Metripack, male, 150 Series
- **FLCF** - Flying Lead Metripack, female, 150 Series
- **FLPM** - Flying Lead Metripack, male, 280 Series
- **FLPF** - Flying Lead Metripack, female, 280 Series
- **SP** - 1/4" Spade
- **TS** - Terminal Screw
- **EL** - Male 1/2 NPT Conduit
- **EF** - Female 1/2 NPT Conduit

5 - Options:

- **1** - Viton® Diaphragm
- **2** - EPDM Diaphragm
- **3** - 316 Stainless Steel Housing
- **4** - HNBR Diaphragm
- **7** - Gold Contact
- **8** - 10 amp, Snap Action Microswitch @ 10(2) 125 VAC (inductive), 6(2) 250 VAC (inductive)
- **20** - Seal Adjustment Screw
- **30** - Rubber Boot - Removable
- **35** - Bonded Seal
- **45** - O-ring seal for M10 and M12 thread
- **OC** - Oxygen Cleaned Switches
- **SR** - Snubber
- **SL** - Split Flex Loom
- **HS** - Heat Shrink
- **WS** - Weather Shielding IP 67
- **CA** - IP67 rated protective cover with a removable plug (For SPA, SWA, SMA, SVA models)
- **CS** - IP67 rated protective cover for factory set models (For SPF, SWF, SMF, SVF models)

OPTIONS - AVAILABILITY

ANFIELD SENSORS INC.

		DESCRIPTION	SPA	SWA	SMA	SDCA	SKBA	SKDA	SPAL	SLF	SPAH	DSPA	SVA	SPVL	TG	TC	T200 T201
THREAD	**2G**	1/8 BSPP Male	●	●	O		●	●	●	●	●		●	●			O
	4G	1/4 BSPP Male	●	●	●	●	●	●	●	●	●	●	●	●	O	O	●
	4GF	1/4 BSPP Female				●				●							
	4GB	1/4 BSPP Male, Brass										O					
	2M	1/8 NPT Male	●	●	●		●	●	●	●	●		●	●			O
	4M	1/4 NPT Male	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	4MF	1/4 NPT Female				●				●							
	4MB	1/4 NPT Male, Brass										O					
	6M	3/8 NPT Male															
	8M	1/2 NPT Male															
	4S	7/16 - 20 SAE Oring Male	●	O	●	●	●	●					●		●	●	●
	4SLN	7/16 - 20 SAE Oring Male, Adjustable			●	O											
	6S	9/16 - 18 SAE Oring Male	●	O	●	O	●	●					●				
	8S	3/4 - 16SAE Oring Male															
	M10	M10 x 1.0 Male	O	O	●		●	●					O				O
	M12	M12 x 1.5 Male	O	O	●		●	●					O				O
ELECTRICAL	**H**	DIN 43650A male half	●		●							●	●				
	HC	DIN 43650A	●		●							●	●				
	HC-5A	DIN 43650A 12 VDC	●		●							●	●				
	HC-5B	DIN 43650A 24 VDC	●		●							●	●				
	HC-5C	DIN 43650A 110 / 230 VAC	●		●							●	●				
	HR	90 Degree DIN 43650A male	●	●	●	●							●				
	HCR	90 Degree DIN 43650A	●	●	●	●							●				
	HN	DIN 43650A 1/2" Conduit	●		●							●	●				
	HNR	90 Degree DIN 43650A 1/2" Conduit	●	●	●	●							●				
	FL	Flying Lead, 18 AWG	●	●	●		●		●	●			●	●			
	FLWF	Flying Lead Weatherpack Tower	●	●	●		●		●	●			●	●			
	FLWM	Flying Lead Weatherpack Shroud	●	●	●		●		●	●			●	●			
	FLDP	Flying Lead Deutsch plug	●	●	●		●		●	●			●	●			
	FLCM	Flying Lead Metripack male 150 series	●	●	●		●		●	●			●	●			
	FLCF	Flying Lead Metripack female 150 series	●	●	●		●		●	●			●	●			
	FLPM	Flying Lead Metripack male 280 series	●	●	●		●		●	●			●	●			
	FLPF	Flying Lead Metripack female 280 series	●	●	●		●		●	●			●	●			
	SP	1/4" Spades	●	●	●		●		●	●	●		●	●			
	TS	Terminal Screw							●					●			
MISCELLANEOUS OPTIONS	**1**	VITON Seal	●	●	●	●	●	●				●	●				
	2	EPDM Seal	●	●	●	●	●	●	O			●	●				
	3	Stainless Steel	●	O	●	O	O	O				O	●				
	4	HNBR	●	●	●	●	●	●				●	●				
	6	Lead Free Brass	●	●									●				
	7	Gold Contact Microswitch	●	●	●	●	●	●				●	●				
	8	10A Microswitch	●	●	●	●						●	●				
	20	Seal Adjustment Screw	●	●	●	●	●	●	●			●	●				
	30	Rubber Boot					●		●								
	35	Bonded Seal (Available for M10, M12, 1/8 BSPP, 1/4 BSPP threads only)	●	●	●	●	●	●	●	●		●	●				
	45	O-ring M10, M12 threads	●	●	●		●	●	●				●				
	OC	Oxygen Cleaned Switches	O	O	O	O	O	O					O				O
	SR	Snubber	●	●	●	●	●	●					●				O
	SL	Split Flex Loom	●	●	●		●		●	●			●	●			
	HS	Heat Shrink	●	●	●		●		●	●			●	●			
	WS	Weather Shielding IP67 Rating	●	●	●								●				

● - Standard
o - May require minimum quantity

MATERIAL COMPATIBILITY

Media	Nitrile	EPDM	Viton
Acetic Acid		X	
Acetone		X	
Acetylene	X		
Air	X		
Alcohols	X		
Alkalies (weak)	X		
Alkalies (strong)		X	
Ammonia (Anhydrous)	X		
Ammonia (Hydroxide)		X	
Asphalt			X
Automotive Oils	X		
Beer	X		
Benzene			X
Boric Acid	X		
Brake Fluid		X	
Bunker Oil	X		
Butane	X		
Butyl Cellosolve		X	
Carbon Dioxide	X		
Carbon Monoxide	X		
Cellube		X	
Chlorobenzene			X
Citric Acid	X		
Coke Oven Gas			X
Coolanol	X		
Diesel Fuels	X		
Di-Ester Lube (MIL-L-7808)			X
Dowtherm A&E		X	
Ethanol	X		
Ether		X	
Ethylene	X		
Ethylene Glycol	X		
Freon 11, 12, 112, 114	X		
Freon 22		X	
Fyrquel		X	
Fuel Oil	X		
Gasoline	X		
Glycerin	X		
Helium	X		
Hexane	X		

Media	Nitrile	EPDM	Viton
Hydraulic Oil (PET Base)	X		
Hydrocarbons	X		
Hydrogen	X		
Hydrogen Sulphide		X	
Isopropanol		X	
JP-3-6	X		
Kerosene	X		
LPG	X		
Lube Oil (PET Base)	X		
Methanol	X		
MEK		X	
Mineral Oil	X		
Motor Oils	X		
Naptha		X	
Natural Gas	X		
Nitric Acid		X	
Nitrogen	X		
Oleum Spirits			X
Oxygen			X
Ozone		X	
Cruide Oil	X		
Phosphoric Acid			X
Propane	X		
Propanol	X		
Pydral (135, 150, A200)			
Shell Iris 902	X		
Silicone Greases	X		
Silicone Oils	X		
Skydrol 500 & 7000		X	
Soap Solutions	X		
Steam below 320°F		X	
Stoddard Solvent	X		
Sulfuric Acid			X
Toluene			X
Transmission Fluid A	X		
Trisodium Phosphate	X	X	
Turpentine	X		
Water to 220°F (104°C)		X	
Water to 302°F (150°C)		X	

Recommended Temperature Range

Nitrile: -20°F to 180°F (-29°C to 82°C)
HNBR: -20°F to 248°F (-29°C to 120°C)

EPDM: -20°F to 248°F (-29°C to 120°C)
Viton: 23°F to 248°F (-5°C to 120°C)

ELECTRICAL CONFIGURATION

ANFIELD SENSORS INC.

			
FLDR - Deutsch DT04-2P (Receptacle, 2 Tower) Only available for SPST	**FLDP** - Deutsch DT06-2S (Plug, 2 Tower) Only available for SPST	**FLDR** - Deutsch DT04-3P (Receptacle, 3 Tower) Only available for SPDT	**FLDP** - Deutsch DT06-3S (Plug, 3 Tower) Only available for SPDT
			
FLWF - Weather Pack (Female, 2 Tower) Only available for SPST	**FLWM** - Weather Pack (Male, 2 Shroud) Only available for SPST	**FLWF** - Weather Pack (Female, 3 Tower) Only available for SPDT	**FLWM** - Weather Pack (Male, 3 Shroud) Only available for SPDT
			
FLCF- Metripack 150 Series (Female) Only available for SPST	**FLCM**- Metripack 150 Series (Male) Only available for SPST	**FLCF**- Metripack 150 Series (Female) Only available for SPDT	**FLCM**- Metripack 150 Series (Male) Only available for SPDT
			
FLPF- Metripack 280 Series (Female) Only available for SPST	**FLPM**- Metripack 280 Series (Male) Only available for SPST	**FLPF**- Metripack 280 Series (Female) Only available for SPST	**FLPM**- Metripack 280 Series (Male) Only available for SPST
			
HC DIN 43650 Form A Only available for SPDT	**HN** DIN 43650A 1/2" Conduit Only available for SPDT	**FL** Flying Leads	**SP** 1/4" Spade Terminals
			
"-30" BOOT			

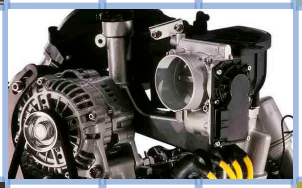
GLOSSARY

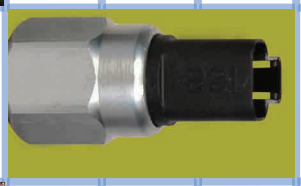
Terminology	
Accuracy (Repeatability)	Accuracy is the maximum allowable set point deviation of a single pressure or temperature switch under one given set of environmental and operational conditions.
Actuation Point and Deactuation Point	The actuation point (sometimes called set point) is the exact point at which the electrical circuit controlled by the switching element is opened (or closed) on increasing pressure or temperature. The deactuation point is the opposite of the point at which the electrical circuit is closed (or opened) on decreasing pressure or temperature.
Adjustable Range	It is the range within which a switch can be set from lowest to highest set point.
Bimetal Temperature Switch	A temperature sensing device that contains a bimetallic strip. It has a specified temperature set point for which the switch will open or close the circuitry.
Blade Contact	A pressure switch that is not operated by a microswitch, but rather the circuitry is opened or closed through a piece of metal that bridges the two terminals.
Dead Band Differential	Sometimes referred to as "hysteresis", is the change in pressure between the actuation and deactuation set points.
Diaphragm	The membrane of flexible material (Buna, EPDM, Viton®), which is deflected by input pressure.
Field Adjustable	A sensor which has been designed to permit adjustment or calibration of set points in field applications.
Fluid	In engineering terms, a liquid or gas which tends to conform to the shape of its container, and which alters its shape in response to applied force.
Gauge Pressure	A form of differential pressure measurement which uses atmospheric pressure (14.7psia) as the zero reference.
Gold Contacts	Gold switching elements provide high corrosion resistance and high reliability when switching low voltage circuits.
Impedance	In a circuit, the opposition to flow of alternating current, consisting of ohmic resistance, inductive reactance, and capacitive reactance.
Inductive Load	Load from electrical devices which are made of wound or coiled wire. Current passing through the windings creates a magnetic field which produces mechanical work. When an inductive circuit is switched open, energy stored in the coil can reverse flow, sparking at the switch contact surfaces.
Maximum System Pressure	Rated pressure above the normal system pressure, including surges or spikes.

Terminology	
Normally Closed Switching Element	Is one in which the terminals are wired so that current can flow through the switching element until pressure is applied to open the electrical circuit.
Normally Open Switching Element	Is one in which the terminals are wired so that no current can flow through the switching element until the pressure is applied to close the electrical circuit.
Pressure Range	Minimum and maximum pressure for which a sensor has been calibrated or specified.
Pressure, Proof	Proof Pressure (normally 1-1/2 times system pressure) is the maximum static pressure which can be applied to any switch without causing permanent degradation.
Pressure Sensing Element	That portion of the pressure switch that is in contact with and moves as a result of a change in pressure of the fluid. The most common type of pressure sensing elements are diaphragms, bellows, bourdon tubes, and pistons.
Pressure Switch	An instrument that upon the increase or decrease of a pressure or vacuum, opens or closes one or more electrical switching elements at a predetermined actuation point (setting).
Reed Switch	Is an electrical switch operated by an applied magnetic field. It consists of a pair of contacts, either normally open or normally closed, in a hermetically sealed glass tube.
Resistive Load	Load from devices which use electrical resistance to produce heat or light. Restive loads cause current to flow in only one direction through a circuit.
Set Point	The point at which motion of the pressure or vacuum or temperature sensing element causes the switch to function.
Single Pole Double Throw (SPDT)	A SPDT switching element has one normally open, one normally closed and one common terminal. Three terminals mean that the switch can be wired with the circuit either normally open (N/O) or normally closed (N/C) or both.
Snap-Action Switch	A mechanically operated electric switch which, once its actuator has reached its operating (or release) point, immediately transfers to its opposite position without further travel of the actuator.
Temperature Range	The ambient temperature range through which a product can operate









ANFIELD
SENSORS INC.

Toll Free (US & CANADA):
1-877-774-8808

Canada
Anfield Sensors Inc.
8831 Keele Street,
Concord, Ontario, Canada, L4K 2N1
Phone : (905) 303-8700
Fax : (905) 303-7130
Email : sales@anfieldsensors.com

USA
Anfield Industries Inc.
375 International Park, Suite 300
Newnan, GA, 30265
Phone : (404) 530-3804
Fax : (404) 530-3805
Email : info@anfieldind.com

@anfield_sensors

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