



ANFIELD

SENSORS INC.





ABOUT US

Anfield Sensors Inc. headquartered in Toronto, Canada, is a leading manufacturer of hydraulic and pneumatic sensors, specializing in pressure, vacuum, differential, and temperature switches/ transducers. Our full product range allows us to serve various markets including industrial, mobile, food service, medical and military industries.

Our dedicated team of engineers can provide guidance in product selection and also in designing a product specifically for your application. We are driven to exceed customers' expectations in product performance and customer service.

As a full-service provider of engineered and manufactured products, we devote a significant amount of our time and resources to our research and development center in order to ensure that we continue to set industry benchmarks.

Anfield has locations in Canada and USA that can help assist with your sensor needs.

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ANFIELD SENSORS INC.

TPA / TPF



DESCRIPTION

The TPA is a minature pressure switch for both industrial and mobile applications. Designed with high levels of ingress protection in mind to meet any challenge. Features a micro switch design with an easily accessible field adjustment that has its own integral seal. It is suitable for pneumatic, water, and any low pressure hydraulic applications.

FEATURES

- Snap action contacts
- Factory set or field adjustable
- High IP Rating
- Cost effective

APPLICATIONS

- Industrial Automation
- Off Highway Vehicles
- Safety and Alarm
- Water Systems

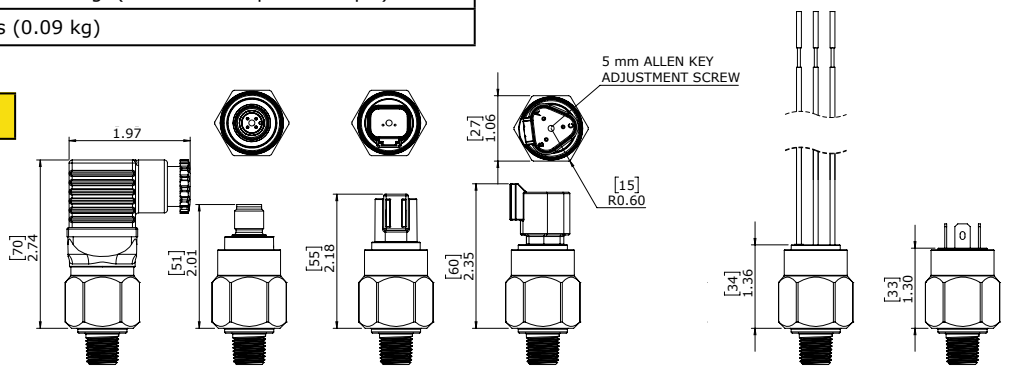
Specifications

Electrical Rating	5A [250VAC] or 3A [24 VDC] Optional: Gold Contacts 0.1A [24VDC]
Switch Type	Snap Action
Ingress Protection	DIN 43650A: IP65 Spades: IP67 (except exposed terminals) Flying Lead: IP67 Deutsch: IP67 M12: IP67
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
Mechanical Life Expectancy	1,000,000 Cycles @ 75 PSI (5.2 BAR)
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM, HNBR
Housing Material	Standard: Brass Optional: Stainless Steel
Maximum Overpressure	350 PSI (24 BAR)
Repeatability	+/- 2% of full set point range at 20°C (68°F)
Differential	7 - 20% of setting (~30% for set points <7 psi)
Weight	0.20 lbs (0.09 kg)

Pressure Range

Model	Adjustment Range	
	PSI	BAR
1	3 - 7	0.2 - 0.5
2	5 - 30	0.3 - 2.1
3	25 - 140	1.7 - 9.7

Dimensions



Wiring Code

CONTACT	FLYING LEADS	DIN 43650 TYPE	FLWF / FLWM FLCM / FLCF / FLPM / FLPF		DR3 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

TPA / TPF

ANFIELD SENSORS INC.

Ordering Information

	1	2	3	4	5 (Optional)
Field Adjustable	TPA -	2 -	2M -	C -	HC - 1
Factory Preset	TPF -	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 - 140	1.7 - 9.7

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
- **4G** - 1/4 BSPP male, G1/4
- **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:

- **HC** - DIN 43650A 6-8mm cable gland (only available with SPDT circuit)
- **HN** - DIN 43650A 1/2” Conduit (only available in with SPDT circuit)
- **SP** - 1/4” Spade
- **M12** - M12 4 Pin (A-Coded)
- **DR3** - Deutsch Receptacle DT04-3P (only available with SPDT circuit)
- **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



5 - Options (Omit if not required):

- **1** - Viton® Diaphragm
- **2** - EPDM Diaphragm (WRAS approved)
- **3** - 316 Stainless Steel Housing (only available in 4M thread option)
- **4** - HNBR Diaphragm
- **6** - Lead Free Brass (only available in 4M thread option)
- **7** - Gold Contact Microswitch, max 20 mA/12 VDC
- **20** - Lock Adjustment Screw (on factory set models only)
- **SR** - Snubber

Contact Factory for other thread options

Note: Please see page 69 for other available options

ANFIELD SENSORS INC.

TMA / TMF



DESCRIPTION

The TMA pressure switch is ideal for mobile hydraulic applications that require SPDT contacts and high ingress protection. It utilizes a proven piston/diaphragm design to provide excellent accuracy and high proof pressures with zero leakage.

FEATURES

- Snap action contacts
- Factory set or field adjustable
- Diaphragm/piston design for longevity
- High IP Rating
- High proof pressures

APPLICATIONS

- Industrial Automation
- Off Highway Vehicles
- Safety and Alarm
- Heavy Machinery

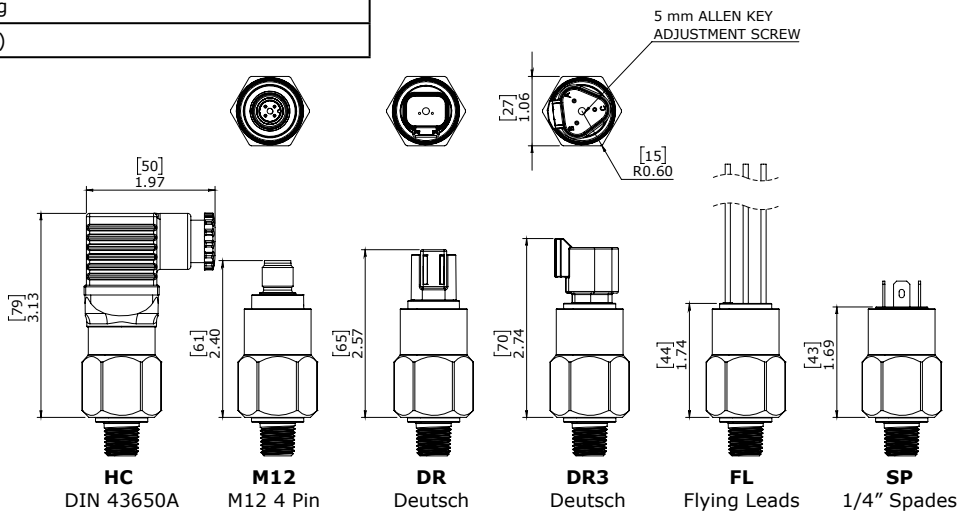
Specifications

Electrical Rating	5A [250VAC] or 3A [24 VDC] Optional: Gold Contacts 0.1A [24VDC]
Switch Type	Snap Action
Ingress Protection	DIN 43650A: IP65 Spades: IP67 (except exposed terminals) Flying Lead: IP67 Deutsch: IP67 M12: IP67
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
Mechanical Life Expectancy	1,000,000 Cycles @ 1000 PSI (69 BAR)
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM, HNBR
Housing Material	Brass (Optional Stainless Steel)
Maximum Overpressure	9000 PSI (620 BAR)
Repeatability	+/- 2% of full set point range at 20°C (68°F)
Differential	7 - 20% of setting
Weight	0.29 lbs (0.13 kg)

Pressure Range

Model	Adjustment Range	
	PSI	BAR
3	15 - 35	1.0 - 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



Wiring Code

CONTACT	FLYING LEADS	DIN 43650 TYPE	FLWF / FLWM FLCM / FLCF / FLPM / FLPF		DR3 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

TMA / TMF

ANFIELD SENSORS INC.

Ordering Information

Field Adjustable

TMA	-	1: 4	-	2: 2M	-	3: C	-	4: HC	-	5 (Optional): 1

Factory Preset

TMF	-	1: 30F	-	2: 2M	-	3: C	-	4: HC	-	5 (Optional): 1

1 - Pressure Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	PSI	BAR
3	15 - 35	1.0 - 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
- **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:

- **HC** - DIN 43650A 6-8mm cable gland (only available with SPDT circuit)
- **HN** - DIN 43650A 1/2" Conduit (only available with SPDT circuit)
- **SP** - 1/4" Spade
- **M12** - M12 4 Pin (A-Coded)
- **DR3** - Deutsch Receptacle DT04-3P (only available with SPDT circuit)
- **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



5 - Options (Omit if not required):

- **1** - Viton® Diaphragm
- **2** - EPDM Diaphragm
- **3** - 316 Stainless Steel Housing (only available in 4M thread option)
- **4** - HNBR Diaphragm
- **7** - Gold Contact Microswitch, max 20 mA/12 VDC
- **20** - Lock Adjustment Screw (on factory set models only)
- **SR** - Snubber

Note: Please see page 69 for other available options

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 available for special application requirements.

FEATURES

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

APPLICATIONS

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

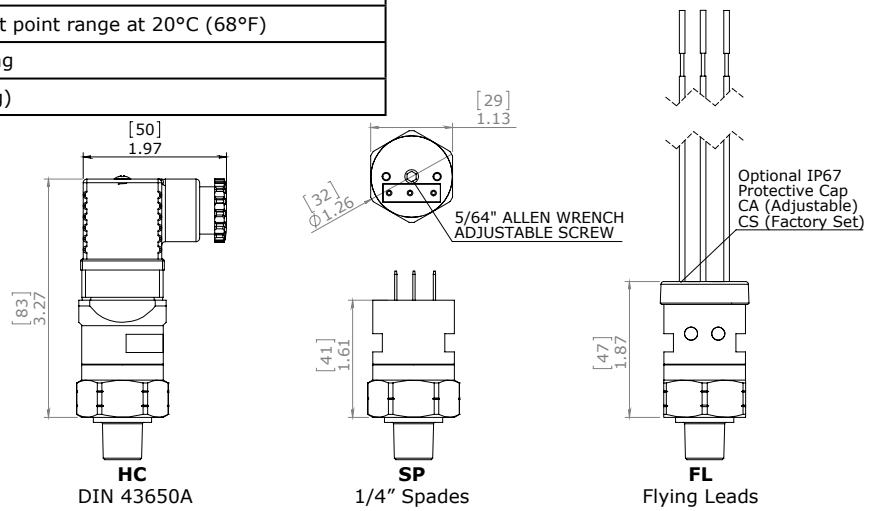
Specifications

Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC] Optional: 10A or Gold Contact
Switch Type	Snap Action
Ingress Protection	DIN 43650A (18 mm, Cable Diameter 6-8 mm) : IP65 Spades: IP00 Flying Lead: IP64 Flying Lead with CA/CS: IP67
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
Mechanical Life Expectancy	1,000,000 Cycles @ 75 PSI (5.2 BAR)
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM, HNBR
Housing Material	Standard: 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



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
- **2GT** - 1/8 BSPT, R1/8
- **4GT** - 1/4 BSPT, R1/4

3 - Circuit:

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

4 - Electrical Termination:

- **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 (WRAS approved)
- **3** - 316 Stainless Steel Housing
- **4** - HNBR Diaphragm
- **6** - Lead Free Brass
- **7** - Gold Contact, Snap Action Microswitch @ 20 mA/12 VDC (minimum set point 5 psi / 0.34 BAR)
- **8** - 10 amp, Snap Action Microswitch @ 10(2) 125 VAC (inductive), 6(2) 250 VAC (inductive) , (minimum set point 5 psi / 0.34 BAR)
- **20** - Seal Adjustment Screw
- **OC** - Oxygen Cleaned
- **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 69 for other available options

ANFIELD SENSORS INC.

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

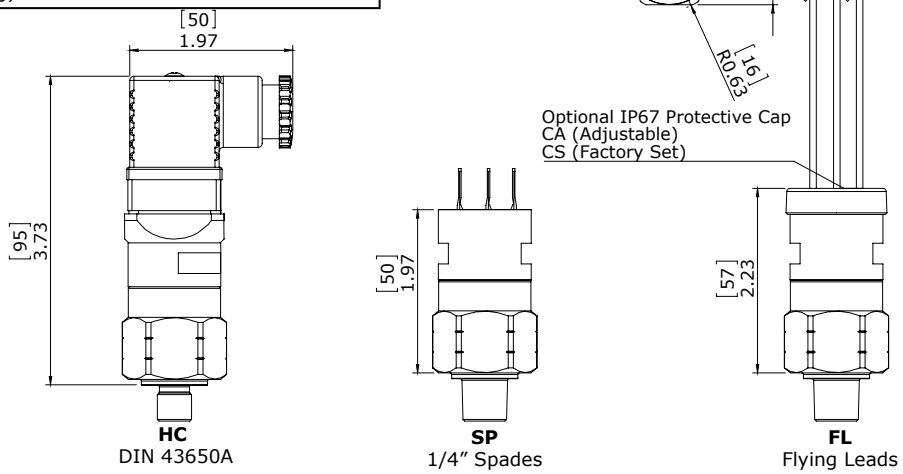
Specifications

Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC] Optional: 10A or Gold Contact
Switch Type	Snap Action
Ingress Protection	DIN 43650A (18 mm, Cable Diameter 6-8 mm) : IP65 Spades: IP00 Flying Lead: IP64 Flying Lead with CA/CS: IP67
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
Mechanical Life Expectancy	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 (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



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

SMA / SMF

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, with O-ring seal (ISO 6149-2)
M12 - M12 X 1.5 male, with O-ring seal (ISO 6149-2)

3 - Circuit:

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

4 - Electrical Termination:

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



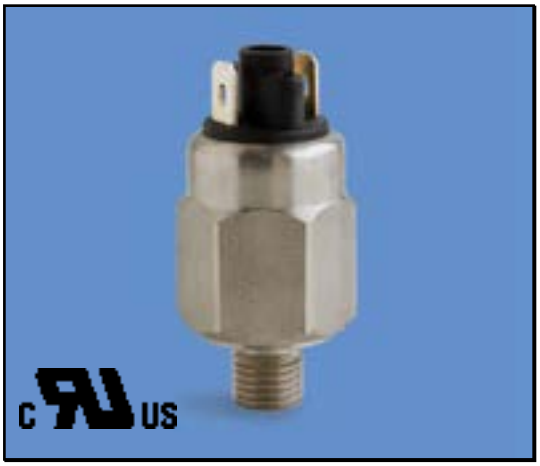
5 - Options (Omit if not required):

1 - Viton® Diaphragm
2 - EPDM Diaphragm
3 - 316 Stainless Steel Housing
4 - HNBR Diaphragm
7 - Gold Contact, Snap Action Microswitch @ 20 mA/12 VDC, (min set point 15 psi / 1.03 BAR)
8 - 10 amp, Snap Action Microswitch @ 10(2) 125 VAC (inductive), 6(2) 250 VAC (inductive), (min set point 15 psi / 1.03 BAR)
20 - Seal Adjustment Screw
OC - Oxygen Cleaned
SR - Snubber
CA - IP67 rated protective cover with a removable plug (For adjustable switches SMA flying lead model)
CS - IP67 rated protective cover (For factory set switches, SMF flying lead model)

Note: Please see page 69 for other available options

ANFIELD SENSORS INC.

SKBA / SKBF



* UL available for certain models

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 up to IP68 when paired with the flying lead option. It is offered with a variety of mechanical and electrical terminations for easy integration.

FEATURES

- Creep / Blade contact switch
- Diaphragm/piston combination
- High ingress protection
- Compact body
- Gold contact available

APPLICATIONS

- Industrial tools
- Garbage trucks
- Brake pressure switch

Specifications

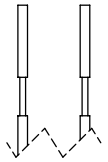
Electrical	100 VA, 42 VDC, Max 4A Optional: Gold Contact
Switch Type	Blade Contact
Ingress Protection	Exposed Terminals - IP00 (IP68 Available)
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)
Ambient Temperature Range	-40°F to 248°F (-40°C to 120°C)
Mechanical Life Expectancy	1,000,000 Cycles @ 1000 PSI (69 BAR)
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM, HNBR
Housing Material	Zinc Plated Steel
Maximum Overpressure	9000 PSI (620 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

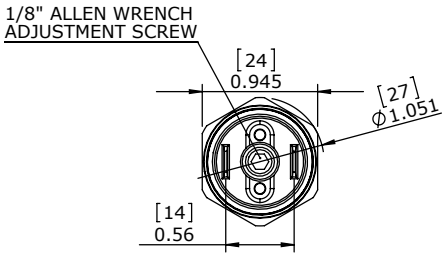
Model	Adjustment Range	
	PSI	BAR
1	5 - 20	0.3 - 1.4
2	20 - 120	1.4 - 8.2
3	90 - 250	6.2 - 17
4	250 - 950	17 - 65
5	700 - 1900	48 - 131
6	1000 - 3000	69 - 206

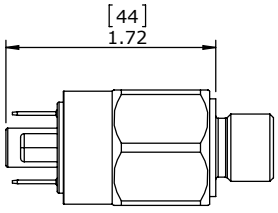
IP68 CAP IS STANDARD WITH FLYING LEADS OPTION

A REMOVABLE PLUG IS PROVIDED FOR ADJUSTABLE MODELS TO ACCESS THE ADJUSTMENT SCREW

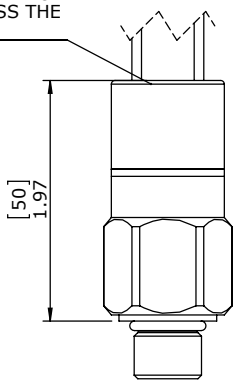


Dimensions





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

Field Adjustable

SKBA	-	1: 2	-	2: 2M	-	3: B	-	4: SP	-	5 (Optional): 1

Factory Preset

SKBF	-	1: 30F	-	2: 2M	-	3: B	-	4: SP	-	5 (Optional): 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 (to be used with seal ring or crush washer, not supplied)
  Note: This thread is not availble for SKBA-1 range or less than 20 psi
- **M12** - M12 X 1.5 male (to be used with seal ring or crush washer, not supplied)

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
- **SR** - Snubber
- **UL** - UL Recognized requires factory consultation for specific ordering details



Note: Please see page 69 for other available options

ANFIELD SENSORS INC.

SKDF



* UL available for certain models

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

- Creep / Blade contact switch
- Diaphragm/Piston combination
- Integrated Deutsch receptacle
- Gold contact available

APPLICATIONS

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

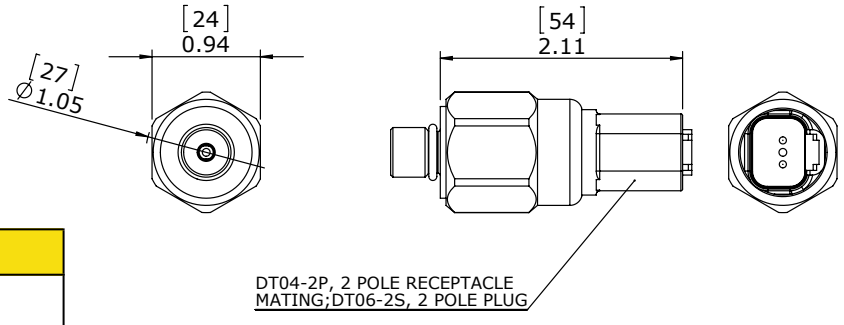
Specifications

Electrical	100 VA, 42 VDC, Max 4A Optional: Gold Contact (0.4VA, 30VDC)
Switch Type	Blade Contact
Ingress Protection	IP67
Mating Connector	DT06-2S
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)
Ambient Temperature Range	-40°F to 248°F (-40°C to 120°C)
Mechanical Life Expectancy	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

SKDF

ANFIELD SENSORS INC.

Ordering Information

Factory Preset

SKDF	-	1 30F	-	2 2M	-	3 B	-	4 DR	-	5 (Optional) 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 (to be used with seal ring or crush washer, not supplied)
  Note: This thread is not availble for SKBA-1 range or less than 20 psi
- **M12** - M12 X 1.5 male (to be used with seal ring or crush washer, not supplied)

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
- **SR** - Snubber
- **UL** - UL Recognized requires factory consultation for specific ordering details



Note: Please see page 69 for other available options

ANFIELD SENSORS INC.

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 low pressure applications under 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

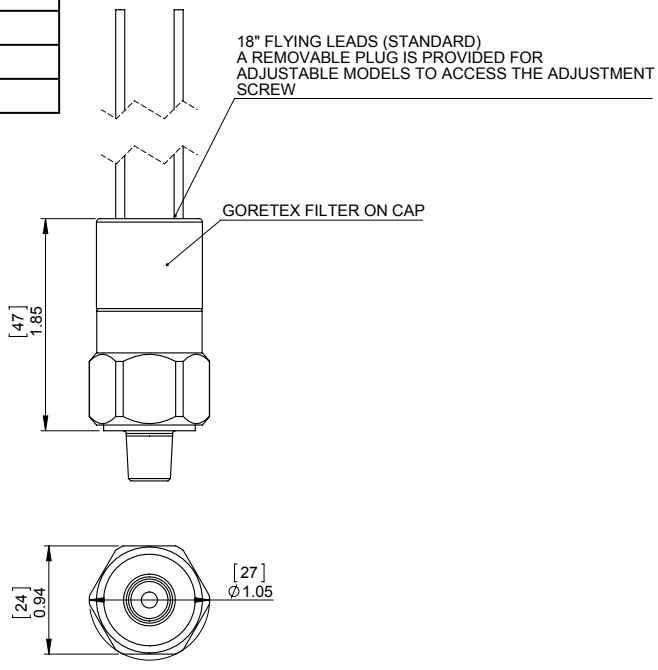
Specifications

Electrical	100 VA, 42 VDC, Max 4A Optional: Gold Contact (0.4VA, 30VDC)
Switch Type	Blade Contact
Ingress Protection	IP68
Media Temperature Range	-40°F to 230°F (-40°C to 110°C)
Ambient Temperature Range	-40°F to 248°F (-40°C to 120°C)
Mechanical Life Expectancy	1,000,000 Cycles @ 75 PSI (5.2 BAR)
Diaphragm Material	Teflon coated polyimide
Housing Material	Brass
Seals	EPDM
Maximum Overpressure	500 psi (34 BAR)
Repeatability	+/- 3% of full set point range at 20°C (68°F)
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 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

SLBA / SLBF

ANFIELD SENSORS INC.

Ordering Information

	1	2	3	4	5	6 (Optional)
Field Adjustable	SLBA -	1 -	2M -	A -	FL -	2 - 7
Factory Preset	SLBF -	30F -	2M -	A -	FL -	2 - 7

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 - 9.0

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

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 - Seal Material:

2 - EPDM Seal

6 - Options (Omit if not required):

7 - Gold Contact, 0.4VA, 30 VDC
SR - Snubber

Note: Please see page 69 for other available options

ANFIELD SENSORS INC.

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

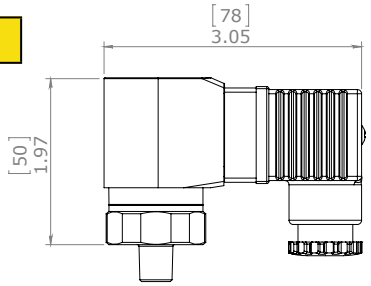
Specifications

Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC] Optional: 10A or Gold Contact
Switch Type	Snap Action
Ingress Protection	DIN 43650A (18 mm, Cable Diameter 6-8 mm) : IP65 Spades: IP00 Flying Leads: IP64 Flying Lead with CA/CS - IP67
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM, HNBR
Housing Material	Standard: 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)

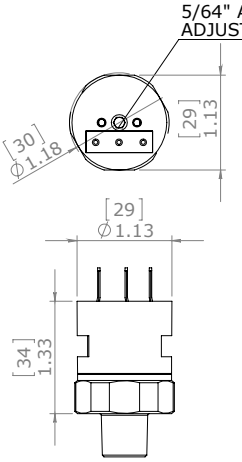
Pressure Range

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

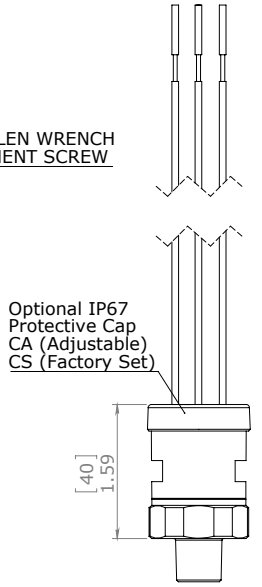
Dimensions



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

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

Factory Preset

SWF	-	1 30F	-	2 2M	-	3 C	-	4 FL	-	5 (Optional) 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 (WRAS approved)
3 - 316 Stainless Steel Housing
4 - HNBR Diaphragm
6 - Lead Free Brass
7 - Gold Contact, Snap Action Microswitch @ 20 mA/12 VDC (minimum set point 11 psi / 0.78 Bar)
8 - 10 amp, Snap Action Microswitch @ 10(2) 125 VAC (inductive), 6(2) 250 VAC (inductive) (minimum set point 11 psi / 0.78 BAR)
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 69 for other available options

ANFIELD SENSORS INC.

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

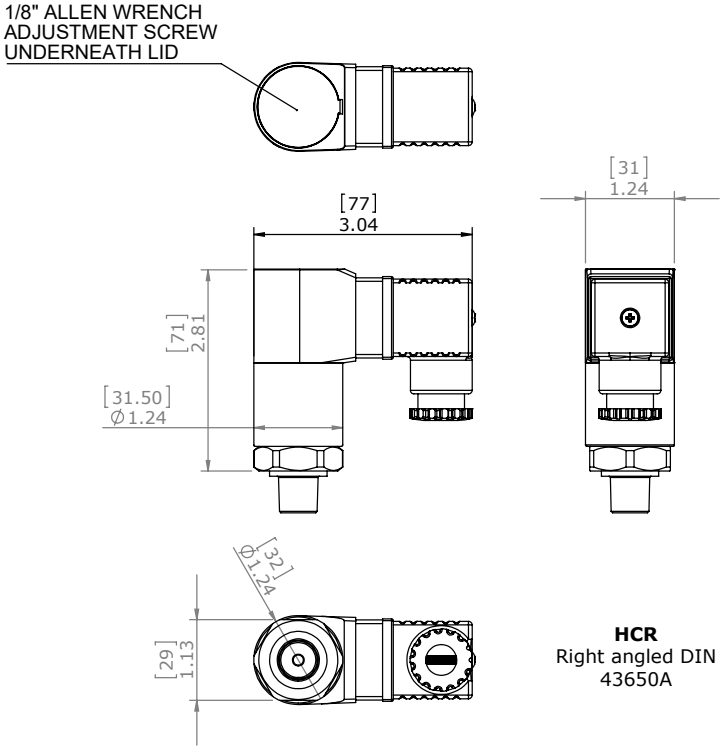
Specifications

Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC] Optional: 10A or Gold Contact
Switch Type	Snap Action
Ingress Protection	DIN 43650A (18 mm, Cable Diameter 6-8 mm) : IP65
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
Mechanical Life Expectancy	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	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

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 -	4M -	C -	HCR -	1
Factory Preset	SDCF -	50F -	4M -	C -	HCR -	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:

HCR - 90 Degree DIN 43650A PG9/PG11
HNR - 90 Degree DIN 43650A 1/2" NPT Conduit

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 69 for other available options

ANFIELD SENSORS INC.

KAPS / KAPF



DESCRIPTION

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

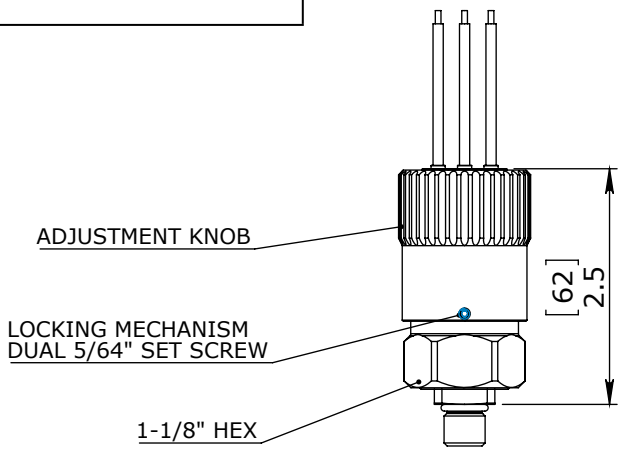
Specifications

Electrical	5A [12/24 VDC, 125 VAC/250 VAC] Optional: 10A or Gold Contact
Switch Type	Snap Action
Ingress Protection	IP67
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
Mechanical Life Expectancy	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

ANFIELD SENSORS INC.

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 69 for other available options

ANFIELD SENSORS INC.

SPAL / SPFL / SPFLH



* UL available for certain models

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	
Ingress Protection	Terminals - IP00	
Temperature Range	Polyimide Film: -40°F to 248°F (-40°C to 120°C) Teflon coated polyimide Film: -40°F to 248°F (-40°C to 120°C) EPDM: 14°F to 212°F (-10°C to 100°C)	
Mechanical Life Expectancy	1,000,000 Cycles @ 75 PSI (5.2 BAR)	
Diaphragm Material	Standard: Polyimide Film Optional: EPDM, Teflon coated polyimde film (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)	

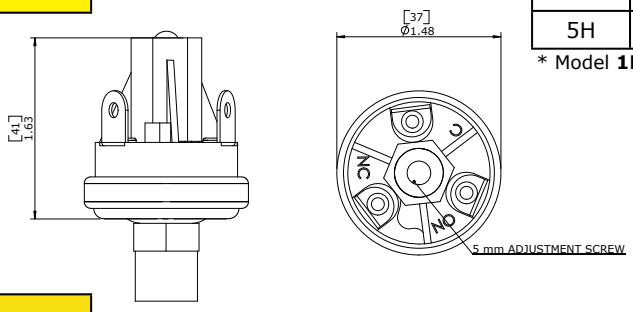
Pressure Range

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	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

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

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

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.

**Set point is adjusted in relation to normally closed contacts for SPDT circuits

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



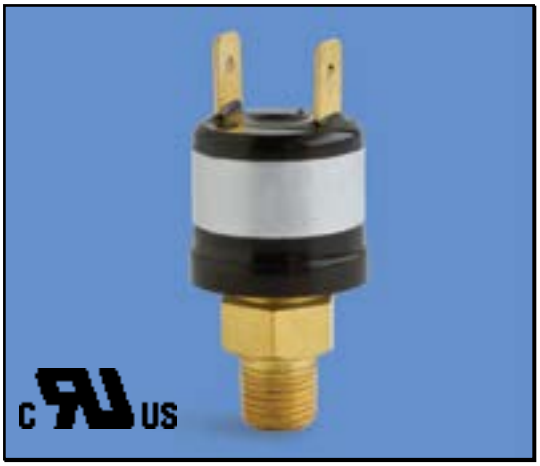
5 - Options (Omit if not required):

- **2** - EPDM Diaphragm, (Available only ranges 1A - 4A)
- **2T** - Teflon coating polyimide film (Available for ranges 5A to 8A)
- **3** - Stainless Steel Housing
- **20** - Seal Adjustment Screw
- **30** - Rubber Boot - Removable

Note: Please see page 69 for other available options

ANFIELD SENSORS INC.

SLF



* UL available for certain models

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

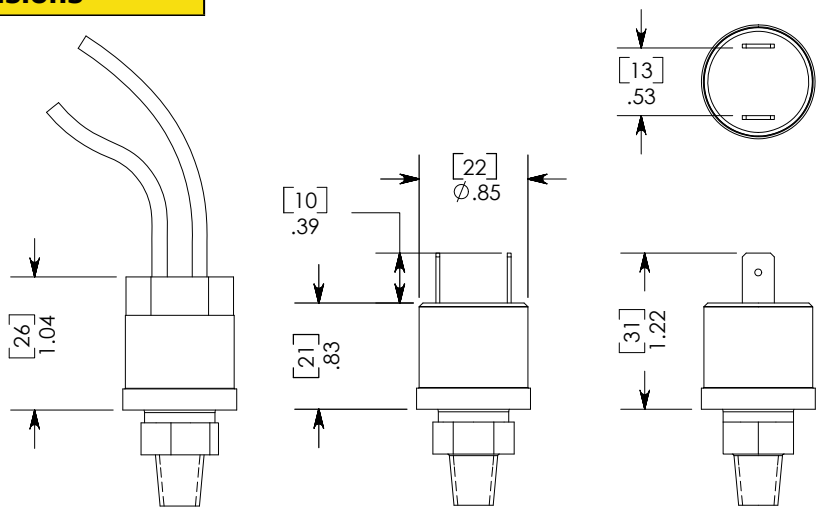
Electrical	3A [12-36 VDC] or 6A [24-250 VAC]		
Switch Type	Snap Disc		
Ingress Protection	Terminals - IP00		
Media Temperature Range	2.9 psi to 145 psi (0.2 BAR to 10 BAR): -40°C to 80°C (-40°F to 176°F)		
	146 psi to 725 psi (10.1 BAR to 64.9 BAR): -40°C to 135°C (-40°F to 275°F)		
Mechanical Life Expectancy	100,000 Cycles		
Diaphragm Material	Standard: Stainless Steel		
Housing Material	Brass		
	Set Point Range	**Tolerance**	**Max Pressure**
	2.9 to 86 psi (0.2 to 5.9 BAR)	4.5 psi (0.31 BAR)	218 psi (15 BAR)
	87 to 144 psi (6 to 9.9 BAR)	7.5 psi (0.52 BAR)	290 psi (20 BAR)
	145 to 289 psi (10 to 19.9 BAR)	10 psi (0.69 BAR)	435 psi (30 BAR)
	290 psi to 434 psi (20 to 29.9 BAR)	15 psi (1.0 BAR)	580 psi (40 BAR)
	435 to 579 psi (30 to 39.9 BAR)	22 psi (1.5 BAR)	798 psi (55 BAR)
	580 to 724 psi (40 to 49.9 BAR)	29 psi (2.0 BAR)	942 psi (65 BAR)
	725 to 941 psi (50 to 64.9 BAR)	36 psi (2.5 BAR)	1160 psi (80 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

SLF

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

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

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
- **2MF** - 1/8 NPT female
- **4M** - 1/4 NPT male
- **4MF** - 1/4 NPT female
- **2G** - 1/8 BSPP male, G1/8
- **2GF** - 1/8 BSPP female, G1/8
- **4G** - 1/4 BSPP male, G1/4
- **4GF** - 1/4 BSPP female, G1/4
- **SV** - Schreader valve

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 69 for other available options

ANFIELD SENSORS INC.

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

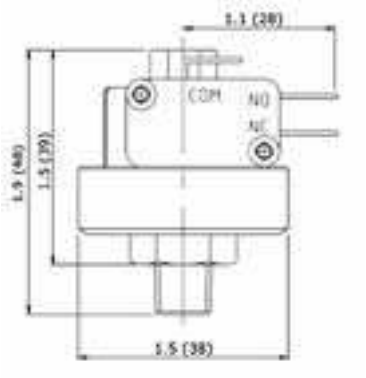
- Very high current rating
- Compact size
- Open type construction

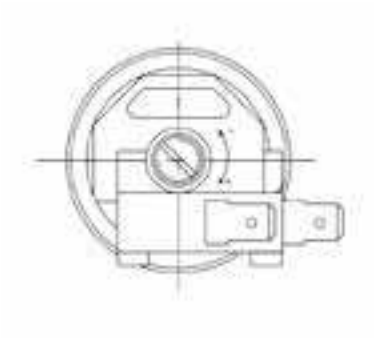
APPLICATIONS

- Household appliances
- Motor switching
- Heating element switching

Specifications	
Electrical	16A, 125/250 VAC 21A, 125/250 VAC
Switch Type	Snap Action
Ingress 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 - 1.4
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





SP
1/4" Spades

Wiring Code	
CONTACT	SP
COMMON	COM
NORMALLY CLOSED	NC
NORMALLY OPEN	NO

SPAH / SPFH

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 - 1.4
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) - 16A, 125/250 VAC
C2 - SPDT (Single Pole Double Throw) - 22A, 125/250 VAC

4 - Electrical Termination:

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

5 - Temperature Rating:

T1 - 85°C
T2 - 125°C



Note: Please see page 69 for other available options

ANFIELD SENSORS INC.

T200 / T201



DESCRIPTION

The pressure transmitter T200/T201 series is designed for use in many mobile and industrial applications. Its compact size, IP67 integrated connectors and stainless steel housing makes it well suited for dependable operation in the field. Featuring EMC/EMI protections, vibration resistance and shock resistance, our transmitters can withstand adverse environments.

These transmitters employ ceramic piezoresistive pressure measuring cells. The use of ceramic allows for an output that is linear with negligible hysteresis that remains consistent throughout its lifetime. The thermal errors can be compensated to standard (T200) or extended (T201) temperature ranges.

The T200/T201 is available in a large range of configurations including process and electrical connections, pressure ranges, and output signals. Its size, specifications and price make it well suited for OEM applications. Product customization is available.

FEATURES

- Piezoresistive Ceramic Sensor
- ASIC Signal conditioning

APPLICATIONS

- Industrial Equipment
- Safety Monitoring
- Mobile Equipment

Specifications

Accuracy*	+/- 0.5 % FS*
Full Scale Pressure Range	15 to 7,500 PSI (1 BAR to 517 BAR)
Proof Pressure	140% to 200% FS based on range (consult factory)
Burst Pressure	180% to 400% FS based on range (consult factory)
Long Term Drift	<0.3% FS @ 77°F (25°C)
Zero Error	0.75% FS
Span Error	0.75% FS
Thermal Error	≤100 psi: 0.01% FS/°F (0.018% FS/°C) 101 psi to 400 psi: 0.009% FS/°F (0.016% FS/°C) 401 psi to 1000 psi: 0.011% FS/°F (0.019% FS/°C) 1001 psi to 3000 psi: 0.012% FS/°F (0.021% FS/°C) 3001 psi to 7500 psi: 0.018% FS/°F (0.028% FS/°C)
Compensated Temperature**	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 Temperature**	-40°F to 257°F (-40°C to 125°C)
Storage Temperature**	-40°F to 257°F (-40°C to 125°C)
Media Temperature	Nitrile: 100°C (212°F) Viton: 125°C (257°F) HNBR: 125°C (257°F) EPDM: 125°C (257°F)
Wetted Materials	SS304 Ceramic Al_2O_3 NBR (Standard) or Optional: VITON®,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	Output / Supply 4 - 20mA / 8 - 30 VDC 0 - 10V / 12.5 - 30 VDC 0.5 - 4.5V (ratiometric) / 4.5 - 5.5 VDC 0.5 - 4.5V / 9 - 30 VDC 0 - 5V / 9 - 30 VDC 1 - 5V / 9 - 30 VDC 1 - 6V / 9 - 30 VDC 0.25 - 10.25 V / 13 - 30 VDC *** Other supply voltage and outputs available upon request**
Current Consumption	4-20mA : ≤23mA 0.5-4.5V Ratiometric: 3mA All other models listed: 7mA
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)

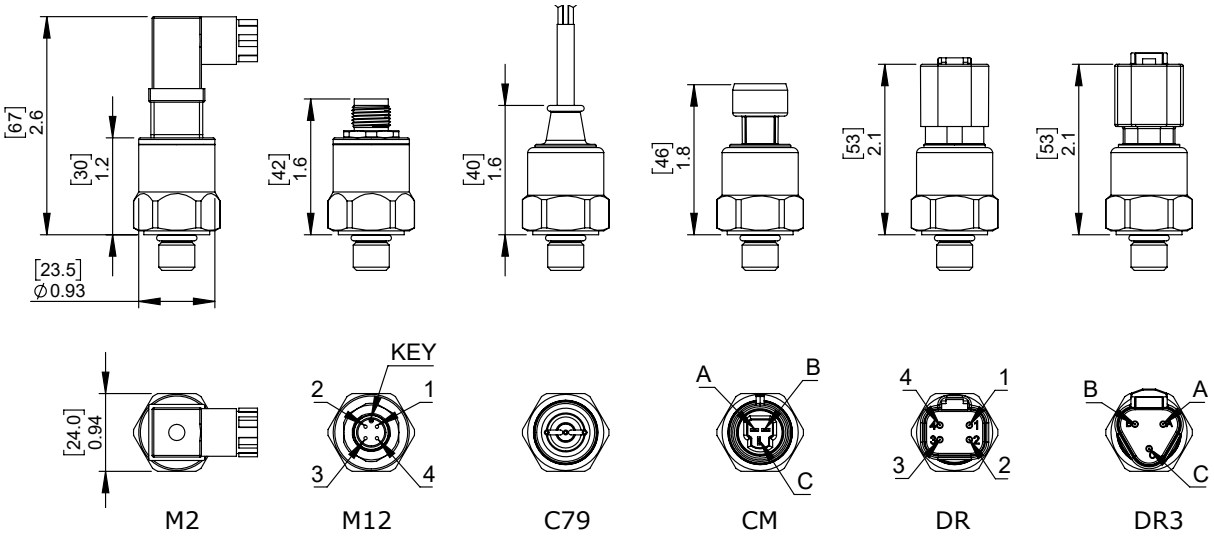
* Accuracy includes:
Non-repeatability
Hysteresis
Terminal-based non linearity

**Temperature data is dependent on seal material selection.

T200 / T201

ANFIELD SENSORS INC.

Dimensions



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	2	1	2	1	4
DR3	A	B	A	B	C
CM	B	A	B	A	C

Ordering Information

1	2	3	4	5	6	7	8 (Optional)
T200 -	0100P -	G -	3 -	M2 -	4M -	N -	T1 -	SR

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:

0015P - 15 PSI
0030P - 30 PSI
0100P - 100 PSI
0150P - 150 PSI
0300P - 300 PSI
0400P - 400 PSI
0600P - 600 PSI
1000P - 1000 PSI
1500P - 1500 PSI
3000P - 3000 PSI
5000P - 5000 PSI
7500P - 7500 PSI **

001B - 1 BAR
002B - 2 BAR
005B - 5 BAR
010B - 10 BAR
020B - 20 BAR
050B - 50 BAR
100B - 100 BAR
200B - 200 BAR
400B - 400 BAR
500B - 500 BAR**

Reference:

A - Absolute
G - Gauge
S - Sealed

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, 9.4mm)
M12 - M12, 4 pin
C79 - Shielded Cable 20 AWG 79 inches (2 meter)
DR - Deutsch Receptacle DT04-4P
DR3 - Deutsch Receptacle DT04-3P
CM - Packard, Metripack 150 Series (P2S)

Process Connection:

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

Seal Material:

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

Accuracy:

T1 - +/- 0.5% FS

Options:

SR - Snubber
VE - Vented†

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

** 7500 psi (500 BAR) range is not available with NPT threads.

† VE option is recommended for applications using gaseaous media.
Not all configurations are available. Please consult sales representative.

TI2C



DESCRIPTION

The TI2C offers a digital communication (i^2c) interface optimized for users in the commercial and industrial fields looking for a rugged but accurate low-power sensor. Its compact size, IP67 integrated connectors and rugged stainless steel housing makes it well suited for dependable operation in the field. Featuring EMC/EMI protections, vibration resistance and shock resistance, our transmitters can withstand adverse environments.

The i^2c interface provides unparalleled sensing accuracy not seen at this price point for analog systems as it eliminates the errors added from ADCs or I/O modules. As well, this transmitter is well suited for low-power applications due its negligible power consumption (<32 µA across full temperature range in sleep mode).

FEATURES

- Ceramic thick film sensor
- Low-power sleep mode (<32 µA)
- Compensated range:-40°F to 257°F

APPLICATIONS

- Low-power applications
- Smart networked sensors
- OEM hydraulic and process controls
- Plant engineering and automation

Specifications

Accuracy	+/- 0.5% FS*
Full Scale Pressure Range	15 psi to 5000 psi (1 Bar to 400 Bar)
Pressure Reference	Gauge, Absolute, Sealed
Digital Interface	I^2C
Device Address	0x28
Operating Current Sleep Mode	0.5 µA (typical) 32 µA (maximum)
Operating Current Update Mode	2.5 mA (max) for ~ 1.7 kHz sampling frequency
Resolution	14 bit
Proof Pressure	140% to 200% FS based on range (consult factory)
Burst Pressure	180% to 400% FS based on range (consult factory)
Long Term Drift	<0.3% FS @ 77°F (25°C)
Compensated Temperatures **	-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 257°F (-40°C to 125°C)
Media Temperature	Nitrile: 100°C (212°F) Viton: 125°C (257°F) HNBR: 125°C (257°F) EPDM: 125°C (257°F)
Wetted Materials	SS304 Ceramic Al_2O_3 Seal material: Nitrile (Standard) Optional Seal material: 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	3.3V update mode and sleep mode: 3 - 3.3 VDC 5.0V update mode and sleep mode: 5 to 5.5 VDC
Protection	Short Circuit, Reverse Polarity Protection
Response Time	≤5ms
Ingress Protection	IP67
Compliance	IEC/EN 61000-4-3(2006) IEC/EN 61000-4-4(2004) IEC/EN 61000-4-5(2005) IEC/EN 61000-4-6(2006) ROHS
Weight	0.15 lbs (0.07kg)

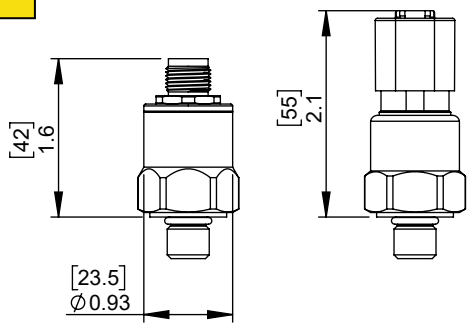
* Accuracy includes: Non-repeatability, Hysteresis, Terminal-based non linearity

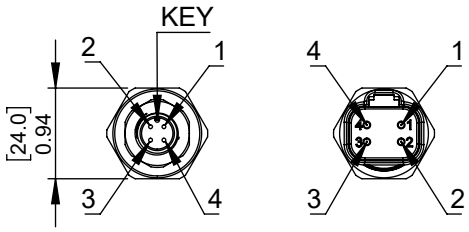
** Temperature data is dependent on seal material selection.

TI2C

ANFIELD SENSORS INC.

Dimensions





M12 DR

Connector	Output			
	VCC	SCL	SDA	GND
M12	1	2	4	3
DR	1	2	3	4

Ordering Information

1	2	3	4	5	6	7	8 (Optional)
TI2C	- 0150P	- G	- 1	- M12	- 4M	- N	- T1	- SR

Model:

TI2C

Pressure Range:

0015P - 15 PSI
0030P - 30 PSI
0100P - 100 PSI
0150P - 150 PSI
0300P - 300 PSI
0400P - 400 PSI
0600P - 600 PSI
1000P - 1000 PSI
1500P - 1500 PSI
3000P - 3000 PSI
5000P - 5000 PSI

001B - 1 BAR
002B - 2 BAR
005B - 5 BAR
010B - 10 BAR
020B - 20 BAR
050B - 50 BAR
100B - 100 BAR
200B - 200 BAR
400B - 400 BAR

Reference:

A - Absolute
G - Gauge
S - Sealed

Configuration:

1 - I²C - 3.3V update mode
2 - I²C - 5.0V update mode
3 - I²C - 3.3V sleep mode
4 - I²C - 5.0V sleep mode

Electrical Connection:

M12 - M12, 4 pin
DR - Deutsch Receptacle DT04-4P

Process Connection:

2M - 1/8" NPT male
4M - 1/4" NPT male
4G - 1/4" BSPP male, G1/4, Type E
4S - 7/16-20 SAE male, with O-ring seal
6S - 9/16-19 SAE male, with O-ring seal

Seal Material:

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

Accuracy:

T1 - +/- 0.5% FS

Options:

SR - Snubber
VE - Vented†

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

† VE option is recommended for applications using gaseaous media.
Not all configurations are available. Please consult sales representative.

TG



DESCRIPTION

A general purpose industrial transducer suitable for a wide range of applications. Our TG series is available in either 0.5% or 0.25% accuracy. It uses a diffused silicon strain gauge sensing element.

FEATURES

- Vacuum and pressure ranges
- Temperature Compensation
- Voltage and current output models available

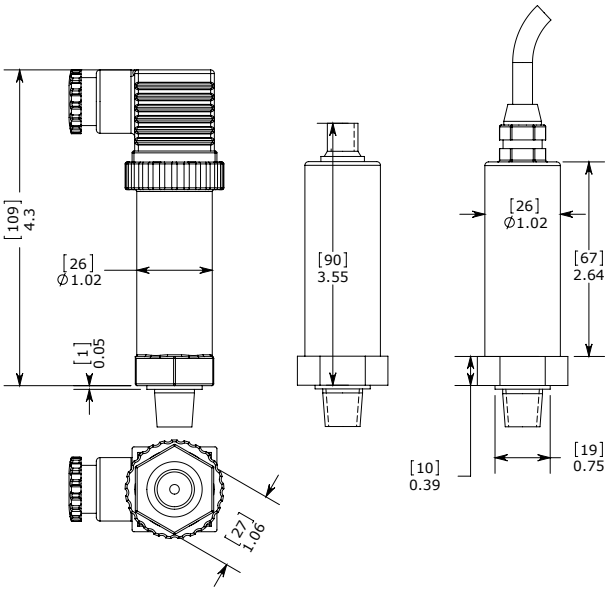
APPLICATIONS

- Industrial Equipment
- Safety Monitoring
- Mobile Equipment

Specifications

Accuracy	0.5% FS, 0.25% FS
Pressure Range	Vacuum to 10,000 psi (700 Bar)
Proof Pressure	150% FS
Burst Pressure	300% FS
Protection	DIN 43650A (18 mm): IP65 DIN 43650C (9.4 mm) : IP65 M12 Connector: IP67 Cable: IP67
Fatigue Life	100,000,000 cycle
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 Temperature	32°F to 149°F (0°C to 65°C)
Operating Temperature Range	-4°F to 176°F (-20°C to 80°C)
Storage Temperature Rating	-40°F to 176°F (-40°C to 80°C)
Process Connection	Standard: SS304 Optional: SS316
Vibration	10g (20-2000Hz) for ≤ 58 PSI (4 BAR) 20g (20-500Hz) for ranges >58 PSI (4BAR)
Shock	100g (11ms)
Supply Voltage	Output: 4 - 20mA — Supply: 12 - 36 VDC Output: 0 - 5V — Supply: 12 - 36 VDC Output: 0 - 10V — Supply: 12 - 36 VDC Output: 0.5 - 4.5V (ratiometric) — Supply: 4.5 - 5.5 VDC Output: 0.5 - 4.5V — Supply: 12 - 36 VDC *** Other supply voltage available upon request**
Max Loop Resistance	500 Ω
Weight	0.37 lbs (0.17kg)

Dimensions



HC DIN 43650A | M12 | CABLE

Wiring Code

Connector	Output				
	4 - 20 mA		Voltage		
	Supply +	Supply -	Supply +	Common	Output +
M2	1	2	1	3	2
M12	1	3	1	4	3
C79 / C158	Red	Black	Red	Yellow/White	Blue
HC	1	2	1	3	2

ANFIELD SENSORS INC.

Ordering Information

Example

1		2		3		4		5		6
TG	-	0300P	-	G	-	3	-	HC	-	4M	-	A2

1 - Measuring Range:

Code	Description
1V0B	-1 BAR to 0 BAR (only available in gauge reference)*
1V1B	-1 BAR to 1 BAR (only available in compound reference)*
001B	1 BAR
002B	2 BAR
005B	5 BAR
010B	10 BAR
020B	20 BAR
050B	50 BAR
100B	100 BAR
200B	200 BAR
350B	350 BAR
400B	400 BAR
600B	600 BAR
700B	700 BAR

OR

Code	Description
1V0P	-30 inHg to 0 inHg (only available in gauge reference)*
1V15P	-30 inHg to 15 PSI (only available in compound reference)*
0015P	15 PSI
0030P	30 PSI
0060P	60 PSI
0100P	100 PSI
0150P	150 PSI
0200P	200 PSI
0300P	300 PSI
0500P	500 PSI
0600P	600 PSI
0750P	750 PSI
1000P	1000 PSI
1500P	1500 PSI
2000P	2000 PSI
3000P	3000 PSI
5000P	5000 PSI
6000P	6000 PSI
7500P	7500 PSI
10000P	10000 PSI

Note:
-Other ranges available.
-*Vacuum models are offered as standard with lowest output value corresponding to -30”Hg (-1Bar) vacuum. Other configurations available.
Please consult factory

2 - Gauge Standard:

- **A** - Absolute
- **G** - Gauge
- **C** - Compound

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, (3 wire)
- **7** - 0.5 - 4.5 V, (3 wire)



4 - Electrical Connection:

- **M2** - DIN 43650C
- **HC** - DIN 43650A
- **HCC79** - DIN 43650A - with 79 inches (2 meters) of 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, with Viton profile seal
- **4S** - 7/16-20 SAE male, with Viton O-ring seal

6 - Accuracy

- **A2** - 0.5%
- **A3** - 0.25%

TC



DESCRIPTION

A compact bonded foil 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

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

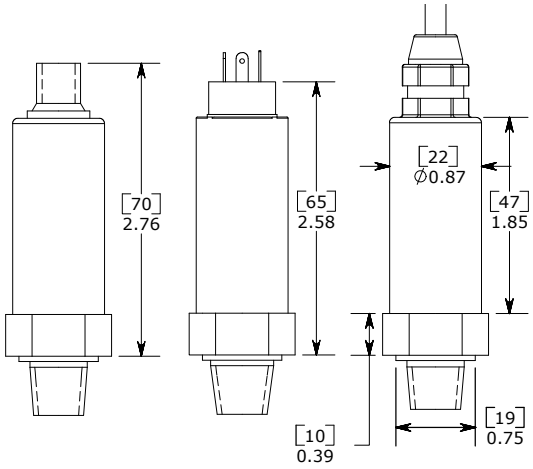
APPLICATIONS

- Road Maintenance Vehicles
- Cranes
- Automation process

Specifications

Accuracy	0.5% FS
Pressure Range	1500 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)
Supply Voltage	Output: 4 - 20mA — Supply: 12 - 36 VDC Output: 0 - 5V — Supply: 12 - 36 VDC Output: 0 - 10V — Supply: 12 - 36 VDC Output: 0.5 - 4.5V (ratiometric) — Supply: 4.5 - 5.5 VDC Output: 0.5 - 4.5V — Supply: 12 - 36 VDC *** Other supply voltage available upon request**
Max. Loop Resistance	500 Ω
Weight	0.37 lbs (0.170kg)

Dimensions



Wiring Code

Connector	Output				
	4 - 20 mA		Voltage		
	Supply +	Supply -	Supply +	Common	Output +
M2	1	2	1	3	2
M12	1	3	1	4	3
C79 / C158	Red	Black	Red	Yellow/White	Blue

Ordering Information

Example

TC	-	1 1500P	-	2 A	-	3 4	-	4 M2	-	5 4M	-	6 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
1500P	1500 PSI
2000P	2000 PSI
3000P	3000 PSI
5000P	5000 PSI
6000P	6000 PSI
7500P	7500 PSI
10000P	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 V, (3 wire)
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 Viton 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.

TTG



DESCRIPTION

The temperature transmitter TTG is well-suited for use in OEM applications, mobile or industrial. Its high EMI resistance, integrated connectors, stainless steel construction, and high shock and vibration specifications were designed to ensure reliable operation out in the field. Furthermore, the industry-standard analog outputs allows ease of integration while the ability to configure the measuring range allows for optimal accuracy built for your system.

FEATURES

- Stainless steel construction
- Easy to install
- Robust design
- Customizable outputs per request

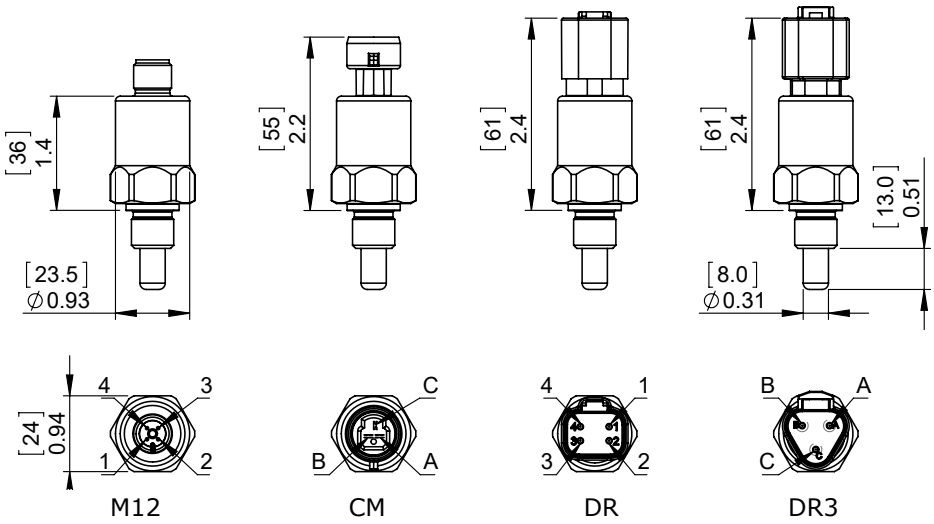
APPLICATIONS

- Hydraulic systems
- Mobile Equipment
- Industrial machinery and machine tools
- Fan cooling circuits

Accuracy (Measuring Element)	Farenheit	Celsius
	Between -4°F to 221°F : +/- 0.81°F	Between -20°C to 105°C: +/-0.45°C
	Below -4°F or above 221°F: +/-1.62°F	Below -20°C or above 105°C: +/-0.90°C
Accuracy (Electronics)	Ratiometric Output: +/-0.2% FS Voltage Output: +/-0.3% FS Current Output: +/-0.5% FS	
Ambient Temperature Range	-58°F to 257°F (-50°C to 125°C)	
Media Temperature Range	No Oring: -58°F to 302°F (-50°C to 150°C) With Viton Oring: -13°F to 302°F (-25°C to 150°C) With HNBR Oring: -40°F to 302°F (-40°C to 150°C)	
Max Pressure	8700 psi (600 Bar)	
Protection	Overvoltage	
Ingress Protection	IP67	
Wetted Parts	Housing: 316SS Oring: Viton or HNBR if applicable	
Supply Voltage	Output	Supply
	4 - 20 mA	8 - 30 VDC
	0 - 10V	12.5 - 30 VDC
	0.5 - 4.5V (Ratiometric)	5V +/-0.5
	0.5 - 4.5V	8 - 30 VDC
Power On Time	< 1s	
Current Consumption	< 5 mA (for Voltage output options)	
Compliance	IEC/EN 61000-4-3(2006) IEC/EN 61000-4-4(2004) IEC/EN 61000-4-5(2005) IEC/EN 61000-4-6(2006) ROHS	
Weight	0.15 lbs (0.07kg)	

ANFIELD SENSORS INC.

Dimensions



Connector	Output				
	4 - 20 mA		Voltage		
	Supply +	Supply -	Supply +	Common	Output +
M12	1	3	1	3	4
DR	2	1	2	1	4
DR3	A	B	A	B	C
CM	B	A	B	A	C

Ordering Information

1		2		3		4		5
TTG	-	N40/125C	-	2	-	M12	-	4M08	-	T1

Model:

TTG

Temperature Range:

- **N40/125C** - -40°C to 125°C (-40°F to 257°F)
- **N25/125C** - -25°C to 125°C (-13°F to 257°F)
- **N25/100C** - -25°C to 100°C (-13°C to 212°F)
- **0/100C** - 0°C to 100°C (32°F to 212°F)
- **0/300F*** - 0°F to 300°F (-17°C to 149°C)
- **N50/150C*** - -50°C to 150°C (-58°F to 302°F)

Output:

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

Electrical Connection:

- **M12** - M12, 4 pin
- **DR** - Deutsch Receptacle DT04-4P
- **DR3** - Deutsch Receptacle DT04-3P
- **CM** - Packard, Metripack 150 Series (P2S)

Process Connection & Seal Material:

- **4M08** - 1/4" NPT male 1/2" probe
- **4G08V** - 1/4" BSPP male, G1/4 , Type E, Viton 1/2" probe
- **4G08H** - 1/4" BSPP male, G1/4 , Type E, HNBR 1/2" probe
- **6S08V** - 9/16-18 SAE male, with O-ring seal, Viton 1/2" probe
- **6S08H** - 9/16-18 SAE male, with O-ring seal, HNBR 1/2" probe

Accuracy:

- **T1** - +/- 0.45°C*

- Maximum temperature exposure limit of electronics is 257°F
- Other material and options available upon request.
- Custom design avaiblable. Please consult factory.

** Please review Specifications section for Accuracy details for this model series*

Note: Please see page 69 for other available options

TTLM



DESCRIPTION

The TTLM series is an integrated-circuit based temperature transducer that outputs voltage proportional to the Centigrade temperature or Kelvin temperature. The TTLM is a very low power device which is why it has very low self heating of less than 0.1°C in still air. Its compact size and amplified output are ideal for mobile equipment or engine monitoring applications.

FEATURES

- Rated for -67°F to 302°F (-55°C to 150°C)
- Less than 100 µA Current Drain
- Low self-heating
- Sensing Element: Precision IC Temperature Sensor

APPLICATIONS

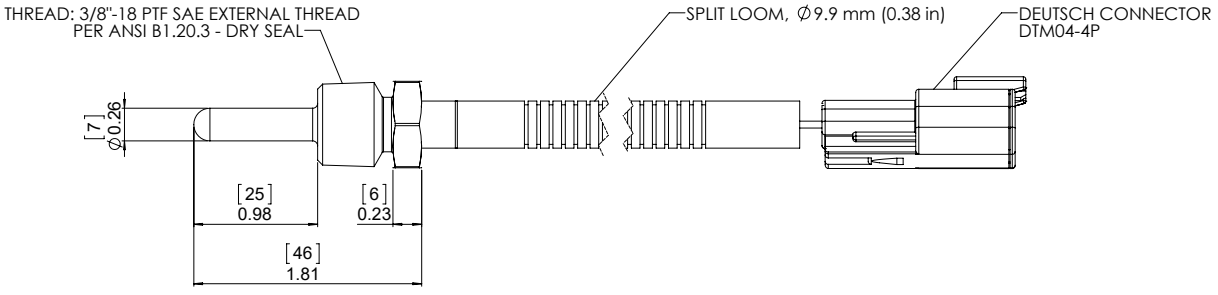
- Mobile equipment
- Hydraulic power units
- Lubrication system
- Engine Oil & Coolant Temp

Specifications

	TTLM1	TTLM2
Temperature Range	36°F to 216°F (2°C to 102°C)	-67°F to 302°F (-55°C to 150°C)
Accuracy	Max +/- 2.7°F at 77°F +/- 1.5°C at 25 °C	Max +/-5.4°F at 77°F +/- 3°C at 25°C
Ambient Temperature Range	-40°F to 257°F (-40°C to 125°C)	-67°F to 257°F (-55°C to 125°C)
Supply Voltage / Current	8 - 30 VDC	12 - 24 VDC* Current Limited. See equation (1)
Output Voltage Range	0.02 to 1.02V	2.18 to 4.23V
Output Sensitivity	10 mV/°C	10 mV/°K
Output Load Resistance	Min 10kΩ	Min 10kΩ
Electrical Connection	Deutsch DTM04-3P	Deutsch DTM04-3P
Wire Protection	Nylon Split Loom (0.38 in) / Ø 9.9mm)	Nylon Split Loom (0.38 in) / 9.9mm)
IP Rating	IP65	IP65
Housing Material	Brass	Brass
Pressure Rating	1800 psi (124 Bar)	1800 psi (124 Bar)
Probe Diameter	7 mm (0.28”)	7 mm (0.28”)

*Must be powered with a constant current source.
The current source setting must consider the current in the sensor and the current in the load resistance.

Dimensions

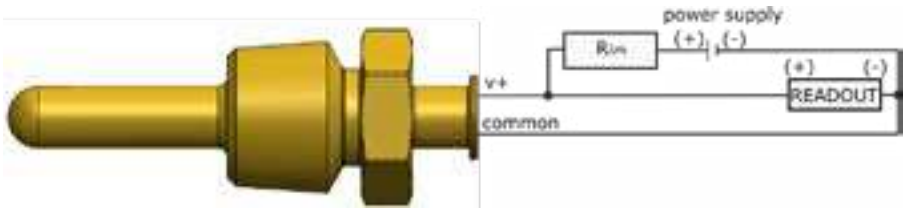


ANFIELD SENSORS INC.

Wiring Code



TTLM1	
PIN 1	RED (V+)
PIN 2	WHITE (OUTPUT)
PIN 3	BLACK (COMMON)



TTLM2	
PIN 1	RED (V+)
PIN 2	NOT CONNECTED
PIN 3	BLACK (COMMON)

Choose resistor (R_{lim}) that is nearest to the calculated value. A 0.25W to 0.5W Power Rating is required for the limiting resistor, R_{lim}

Equation [1] $$R_{lim} = \frac{(V_{supply}) - 2.18\,V}{0.5\,mA}$$

Ordering Information

EXAMPLE 1 **TTLM1** - 2 **6PTF12** - 3 **FLDT**

1 - Model Selection:

TTLM1 - 36˚F to 216˚F (2˚C to 102˚C)
TTLM2 - -67˚F to 302˚F (-55˚C to 150˚C)

2 - Thread Options:

6PTF12 - 3/8”-18 PTF SAE External Thread (Per ANSI B1.20.3 - Dry Seal) with 1” (25 mm) probe length

3 - Electrical Connection

FLDT - Deutsch connector, DTM04-3P, 10” long leads

Note: Different configurations to this series is available. Please contact Anfield Sensors Inc. for custom options.

TT



DESCRIPTION

The TT is a robust temperature transmitter designed for measuring temperature in hydraulic applications. Anfield's unique design enables for ideal performance at a competitive cost. The sensor provides an analog 4 to 20 mA output. The TT series is ideal for harsh environmental conditions.

FEATURES

- Robust design
- IP 65 rated
- Solid state sensing

APPLICATIONS

- Industrial applications
- Hydraulic Power units
- Gear Box
- Lubrication systems

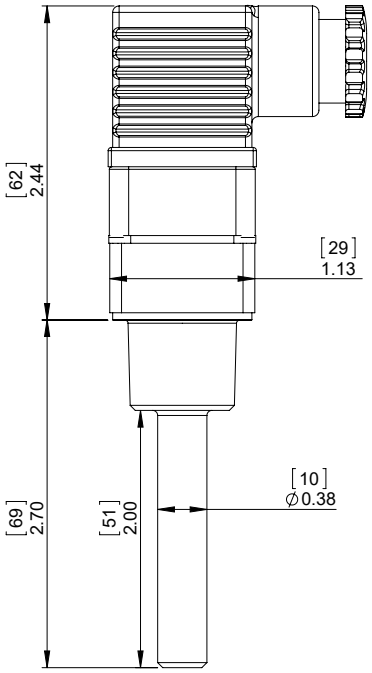
Specifications

Measuring Principle	Solid State
Accuracy (Measuring Element)	At 77 °F: +/- 1.8 °F Between -13 °F to 257 °F : ≤8.3 °F Greater than 257 °F : ≤15 °F
Accuracy (Electronics)	+/- 0.5% FS
Supply Voltage	8 to 30 VDC
Measurement Unit	°F ,°C
Protection	DIN 43650A (18 mm, Cable Diameter 6-10 mm) : IP65
Ambient Temperature Range	-40°F to 257°F (-40°C to 125°C)
Max Pressure	1800 psi (124 BAR)
Output Signal	4 - 20mA
Power On Time	< 1 sec
Temperature Drift	0.001% FS/°C / 1000 hrs
Ingress Protection	DIN 43650A : IP65
Protection	Overvoltage, Short Circuit, Reverse Polarity
Housing Material	Nickel plated brass
Weight	0.37 lbs (0.17 kg)

Wiring Code

	4 - 20 mA	
	Supply +	Supply -
HC - DIN 43650A	Pin 1	Pin 2

Dimensions



Ordering Information

Example

1	2	3	4	5
TT	- S	- N25/100C	- 2	- 8M32 - HC

1 - Sensing Element:

S - Solid State

2 - Temperature Range:

N25/100C - -25°C to 100°C (-13°F to 212°F)
0/100C - 0°C to 100°C (32°F to 212°F)
0/300F - 0°F to 300°F (-17°C to 149°C)

3 - Output:

2 - 4 - 20mA

4 - Threads:

8M32 - 1/2 NPT thread
8G32 - 1/2 BSPP thread with viton seal

5 - Electrical Connector

HC - DIN 43650A

TEMPERATURE SWITCH GUIDE

ANFIELD SENSORS INC.

	Models					
	S2TAF	**S3TAF**	**S5TAF**	**S6TAF**	**S7TAF**	**S8TAF**
Temperature Range	77°F - 293°F (25° - 145°C)	77°F - 293°F (25° - 145°C)	130°F / 54°C 140°F / 60°C 150°F / 65°C 160°F / 71°C 170°F / 76°C 180°F / 82°C 190°F / 87°C 200°F / 93°C 220°F / 104°C	130°F / 54°C 140°F / 60°C 150°F / 65°C 160°F / 71°C 170°F / 76°C 180°F / 82°C 190°F / 87°C 200°F / 93°C 220°F / 104°C	120°F / 49°C 140°F / 60°C 160°F / 71°C 170°F / 76°C 180°F / 82°C	120°F / 49°C 140°F / 60°C 160°F / 71°C 170°F / 76°C 180°F / 82°C
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 Metripack Weatherpack	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

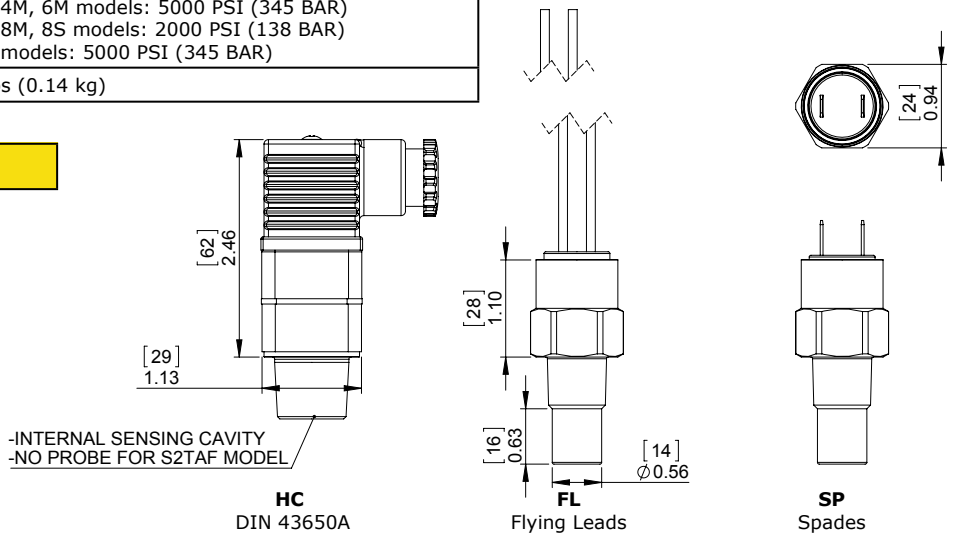
Specifications

Electrical	120 VAC - 15A Resistive 240 VAC - 10A Resistive 12VDC - 12A Resistive 24 VDC - 6A Resistive
Switch Type	Bimetal
Ingress Protection	DIN 43650A (18 mm, Cable Diameter 6-10 mm) : IP65 Terminals: IP00 Flying Lead: IP67 Deutsch DT04-2P: IP67
Repeatability	+/- 7°F
Temperature Range (Factory Set)	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 models: 5000 PSI (345 BAR) S2TAF 8M, 8S models: 2000 PSI (138 BAR) S3TAF models: 5000 PSI (345 BAR)
Weight	0.31 lbs (0.14 kg)

Temperature Set Point Range (Factory Set)

°F	°C
77 - 293	25 - 145

Dimensions



HC
DIN 43650A

FL
Flying Leads

SP
Spades

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

ANFIELD SENSORS INC.

Ordering Information

Factory Preset

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

1 - Temperature Selection:

Insert set point value XXX followed by: R, F
Temperature selection is in increments of 5°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**
1/2 BSPP	**8G**	**N/A**
3/4-16 SAE with Viton O-ring seal	**8S**	**8S10**

- 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	**HC**	- DIN 43650A - Connector (Only available for S2TAF series)
	HN	- DIN 43650A - 1/2" NPT Conduit (Only available for S2TAF series)
S3TAF	**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



* 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

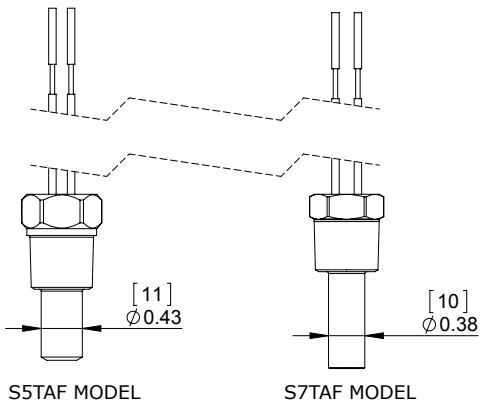
- Temperature switch and sensor
- Compact size
- Low and high differential

APPLICATIONS

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

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 Creep Action
Ingress 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



S5TAF MODEL S7TAF MODEL

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

ANFIELD SENSORS INC.

Ordering Information

Factory Preset	1 S5TAF or S7TAF	-	2 140R	-	3 4M08	-	4 A	-	5 FL

1 - Model Selection:

S5TAF - Approximately 30% of setpoint (see Temperature Selection Table)

S7TAF - Approximately <4% of setpoint (see Temperature Selection Table)

2 - Temperature Selection - Standard available setpoints (Fahrenheit Rising):

S5TAF Model	S7TAF Model
130R	115R*
140R	120R
150R	140R
160R	160R
170R	170R
180R	180R
190R	
200R	
220R	

*This set point is only offered in normally open configuration
-Other setpoints are available 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**
1/2 BSPP	**N/A**	**8G08**	**N/A**	**N/A**
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:

EL - 1/2" male conduit with 18" long leads. Only available with 8M08 thread
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

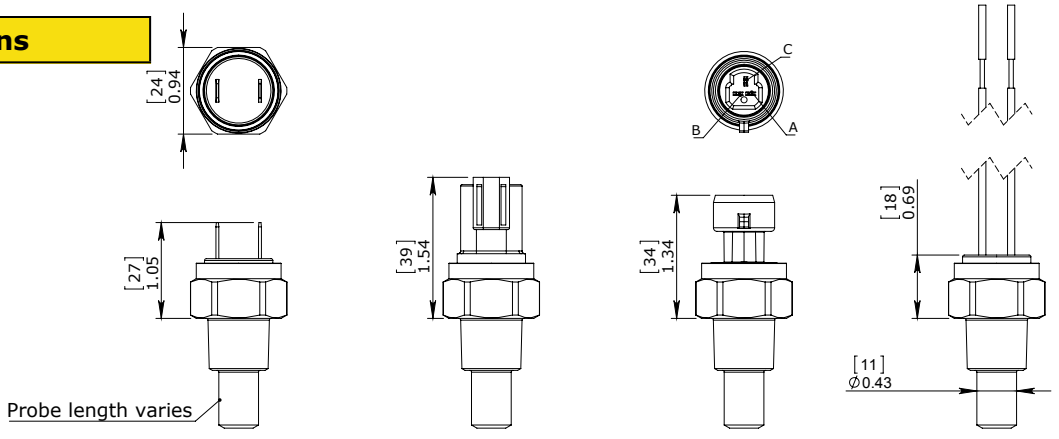
APPLICATIONS

- 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
Ingress Protection	IP67: Deutsch, Packard, Flying Lead IP65: Spade (Except exposed terminals)	IP67: Deutsch, Packard, Flying Lead IP65: Spade (Except exposed terminals)
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	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



SP
1/4" Spade

DR
Deutsch DT04-2P

CM
Packard, 150 Series

FL
Flying Leads

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

Factory Preset

1		2		3		4		5
S6TAF or S8TAF	-	140R	-	4M10	-	A	-	SP

1 - Model Selection:

S6TAF - Approximately 30% of setpoint (see Temperature Specifications Table)

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

2 - Temperature Selection - Standard available setpoints (Fahrenheit Rising):

S6TAF Model	S8TAF Model
130R	120R
140R	140R
150R	160R
160R	170R
170R	180R
180R	195R*
190R	
200R	
220R	

-Other setpoints are available upon request. Consult factory for availability
*Only available in Normally Open configuration

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 - Integrated Deutsch Receptacle (DT04-2P) - Mates with DT06-2S
CM - Packard, Metripack 150 Series (3 pin)
FL - Flying Lead 18" long, (20 AWG for S6TAF) (18 AWG for S8TAF)
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

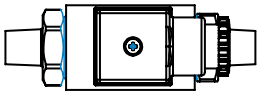
- Filter element monitoring
- Fluid control
- Water treatment applications

Specifications

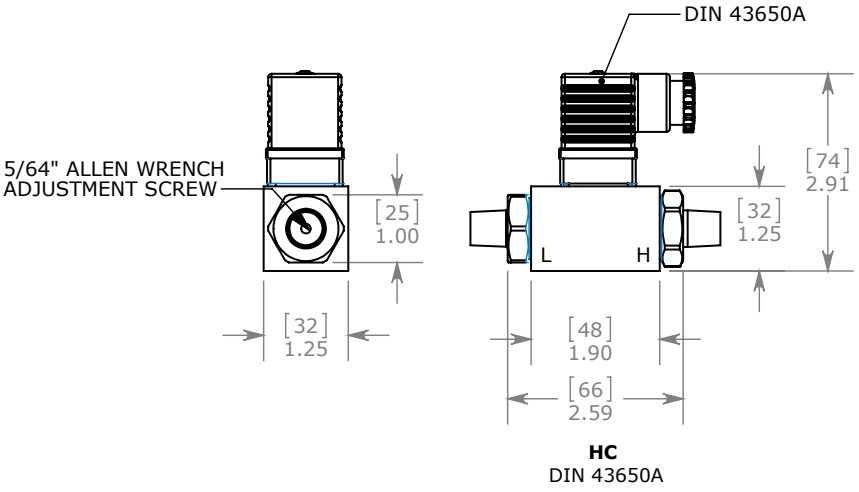
Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC]
Switch Type	Snap Action
Ingress Protection	DIN 43650A - IP65, Terminals - IP00
Mechanical Range	1,000,000 Cycles @ 75 PSI (5.2 BAR)
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
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)

Differential Pressure Range

Model	Adjustment Range	
	PSID	BARD
1	10 - 30	0.7 - 2.0
2	25 - 60	1.7 - 4.0



Dimensions



HC
DIN 43650A

Wiring Code

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

DSPA / DSPF

ANFIELD SENSORS INC.

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 - Differential Pressure Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	PSID	BARD
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-4M - 1/4 NPT male
4G-4G - 1/4 BSPP male, G1/4

3 - Circuit:

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

4 - Electrical Termination:

HC - DIN 43650A PG9/PG11 - connector type
HN - DIN 43650A 1/2" NPT Conduit

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 69 for other available options

TVA / TVF



DESCRIPTION

The TVA is a miniature vacuum swith for industrial and mobile applications. Designed with high levels of ingress protection in mind to meet any challenge. Features a micro switch design with an easily accessible field adjustment that has its own integral seal. It is suitable for pneumatic, water and hydraulic applications.

FEATURES

- Snap action contacts
- Factory set or field adjustable
- High IP Rating
- WRAS approved EPDM diaphragms available

APPLICATIONS

- Industrial Automation
- Off Highway Vehicles
- Safety and Alarm
- Pick and Place Machinery

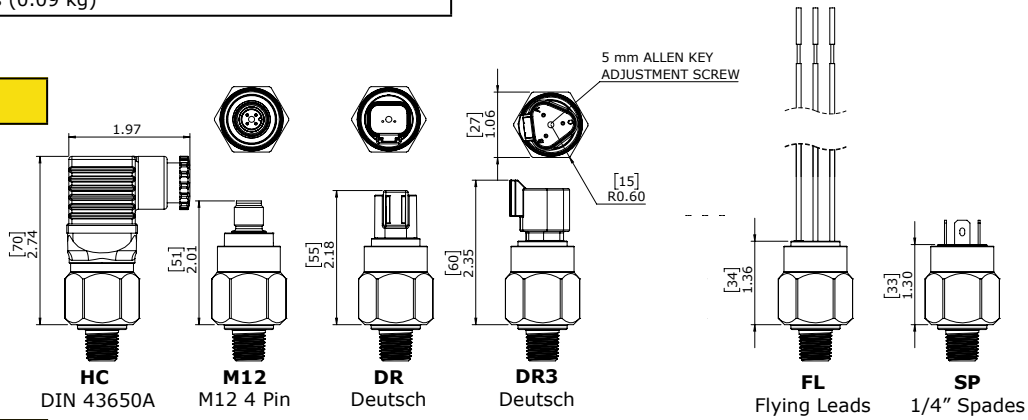
Specifications

Electrical	5A [250VAC] or 3A [24 VDC] Optional: Gold Contacts 0.1A [24VDC]
Switch Type	Snap Action
Ingress Protection	DIN 43650A - IP65 Spades - IP00 Flying Lead: IP64 Flying Lead with CA/CS: IP67
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
Mechanical Range	1,000,000 Cycles @ 20 inHg
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM, HNBR
Housing Material	Brass (Optional Stainless Steel)
Maximum Overpressure	350 PSI (25 BAR)
Repeatability	+/- 2% of full set point range at 20°C (68°F)
Differential	10 - 30% of setting
Weight	0.20 lbs (0.09 kg)

Vacuum Range

MODEL	Adjustment Range	
	inHg	Millibar
1	7-30	237 - 1016

Dimensions



Wiring Code

CONTACT	FLYING LEADS	DIN 43650 TYPE	FLWF / FLWM FLCM / FLCF / FLPM / FLPF		DR3 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	TVA -	1 -	2M -	C -	HC -	1
Factory Preset	TVF -	25F -	2M -	C -	HC -	1

1 - Vacuum Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	inHg	Millibar
1	7 - 30	237 - 1016

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
4G - 1/4 BSPP male, G1/4
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:

HC - DIN 43650A 6-8mm cable gland (only available with SPDT circuit)
HN - DIN 43650A 1/2" Conduit (only available with SPDT circuit)
SP - 1/4" Spade
M12 - M12 4Pin (A-coded)
DR3 - Deutsch Receptacle DT04-3P (only available with SPDT circuit)
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

5 - Options (Omit if not required):

1 - Viton® Diaphragm
2 - EPDM Diaphragm (WRAS Approved)
3 - 316 Stainless Steel Housing (only available in 4M thread option)
4 - HNBR Diaphragm
6 - Lead Free Brass (only available in 4M thread option)
7 - Gold Contact Microswitch, max 20 mA/12 VDC
20 - Lock adjustment Screw (on factory set models only)



Contact Factory for other thread options

Note: Please see page 69 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

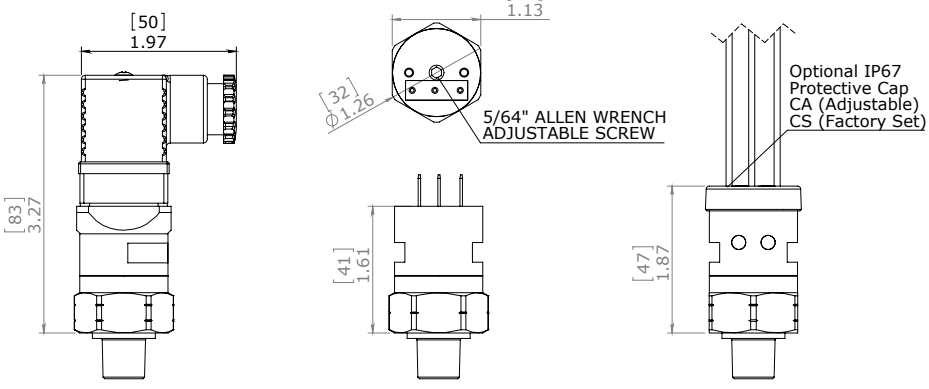
Specifications

Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC] Optional: 10A or Gold Contact
Switch Type	Snap Action
Ingress Protection	DIN 43650A - IP65 Spades - IP00 Flying Lead: IP64 Flying Lead with CA/CS: IP67
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
Mechanical Range	1,000,000 Cycles @ 20 inHg
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM, HNBR
Housing Material	Brass (Optional Stainless Steel)
Maximum Overpressure	350 PSI (25 BAR)
Repeatability	+/- 2% of full set point range at 20°C (68°F)
Differential	10 - 40% of setting
Weight	0.26 lbs (0.12 kg)

Vacuum Range

MODEL	Adjustment Range	
	inHg	Millibar
1	5-30	170 - 1016

Dimensions



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	SVA -	1 -	2M -	C -	HC -	1
Factory Preset	SVF -	25F -	2M -	C -	HC -	1

1 - Vacuum Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range	
	inHg	Millibar
1	5 - 30	170 - 1016

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: 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 (WRAS Approved)
3 - 316 Stainless Steel Housing
4 - HNBR Diaphragm
6 - Lead Free Brass
7 - Gold Contact, Snap Action Microswitch @ 20 mA / 12 VDC (minimum set point 7 inHg / 237 millibar)
8 - 10 amp, Snap Action Microswitch @ 10(2) 125 VAC (inductive), 6(2) 250 VAC (inductive) (minimum set point 7 inHg / 237 millibar)
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 69 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

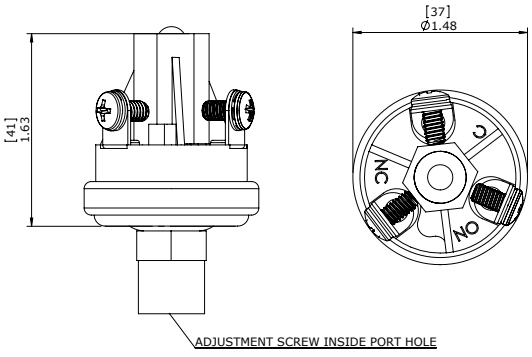
Specifications

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	
Ingress 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 304 Stainless Steel)	
Maximum Operating Vacuum	30 inHg Vacuum (1.02 BAR)	
Burst Pressure	150 PSI (10.3 BAR)	
Weight	0.14 lbs (0.06 kg)	

Vacuum 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	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

SPVL / SPVF

ANFIELD SENSORS INC.

Ordering Information

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

1 - Vacuum 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
9 - 304 Stainless Steel Housing
20 - Seal adjustment Screw
30 - Rubber Boot - Removable



Note: Please see page 69 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

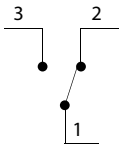
APPLICATIONS

- Hydraulic unit
- Coolant tanks
- Storage tanks

Specifications

Electrical	1A, 20W, 20VA, 150 VDC/VAC 0.5A, 30W, 500VDC
Switch Type	Reed Switch
Ingress Protection	DIN 43650 PG9 - IP65
Temperature Range	-4°F to 176°F (-20°C to 80°C)
Rod Material	Stainless Steel (Optional Reinforced Rod Brass)
Rod Length	20” or 39” (500 mm or 1000 mm)
Maximum Pressure	145 PSI (10 BAR)
Weight	0.55 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 20” (500 mm)
A1000 - Standard rod length 39” (1000 mm)

Note: Rods can be cut to specific length. Please see pg 56 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

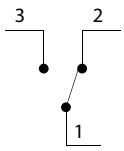
APPLICATIONS

- Process tank
- Batch monitoring
- Storage tanks

Specifications

Electrical	1A, 20W, 20VA, 150 VDC/VAC 0.5A, 30W, 500VDC
Switch Type	Reed Switch
Ingress Protection	Junction Box - IP65
Temperature Range	-4°F to 176°F (-20°C to 80°C)
Rod Material	Stainless Steel (Optional Reinforced Rod Brass)
Rod Length	20” or 39” (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

Example LF2 - 1 R - 2 F3 - 3 S2-S2 - 4 A500 - 5 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 20” (500 mm)
A1000 - Standard rod length 39” (1000 mm)

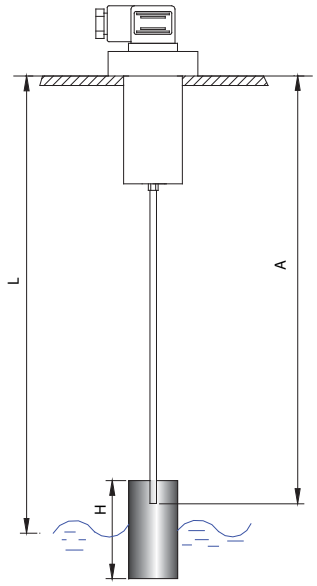
5 - Upper Control Rod Length:

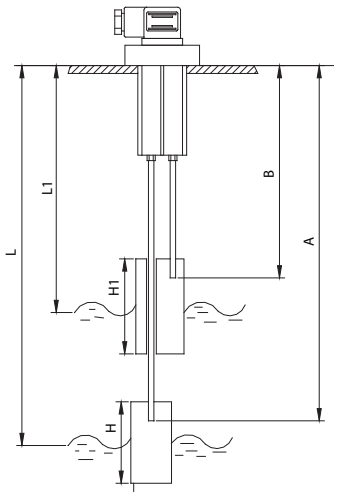
B400 - Standard rod length 16” (400 mm)
B900 - Standard rod length 35” (900 mm)



- Minimum distance between the two points to be controlled is 3.54” (90mm)
-Rods can be cut to specific length. Please see pg 60 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

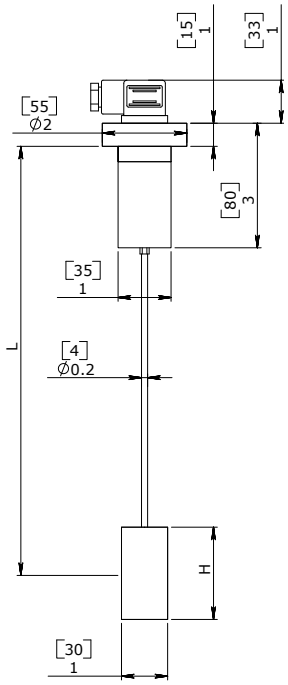
LEVEL SWITCH SPECIFICATION

ANFIELD SENSORS INC.

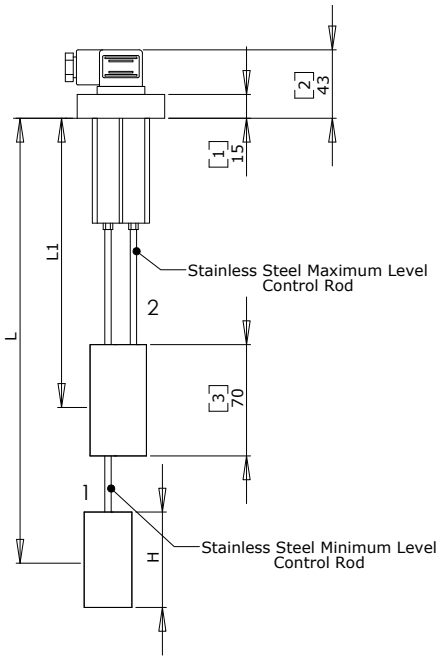
Wiring Code - LF1	
CONTACT	DIN 43650 TYPE
COMMON	PIN 1
NORMALLY CLOSED	PIN 2
NORMALLY OPEN	PIN 3

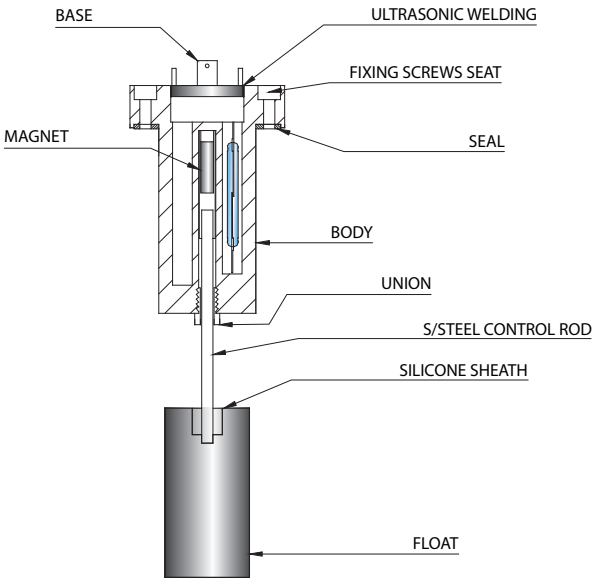
Wiring Code - LF2	
CONTACT	JUNCTION BOX
COMMON	YELLOW
NORMALLY CLOSED	BLUE
NORMALLY OPEN	WHITE

LF1

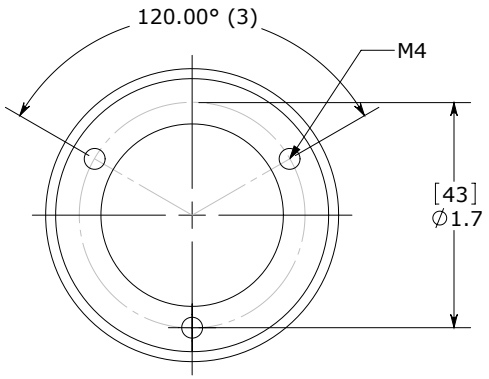


LF2

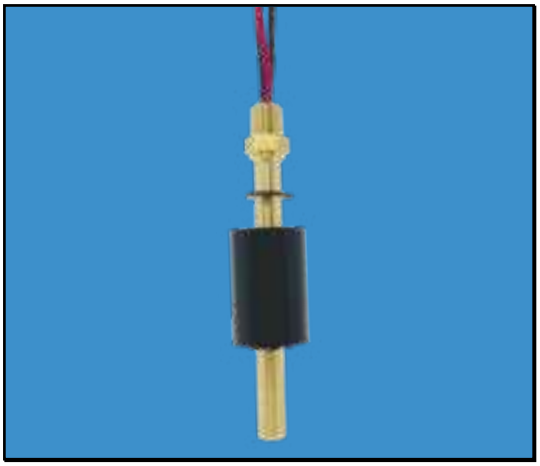




F3 Mounting Pattern:



LTS



DESCRIPTION

The LTS is a level and temperature switch used to indicate the state of the liquid level and temperature in a tank. It features a single-point level switch for easy operation, with a temperature sensor at the bottom of the stem.

FEATURES

- Integrated level and temperature switch
- Easy to install
- Compact body
- Suitable for water, hydraulic oil, mineral oil

APPLICATIONS

- Water tanks
- Hydraulic units
- Level monitoring

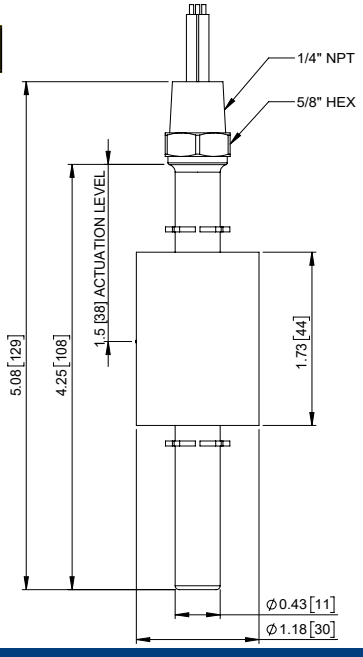
Specifications

Electrical	Level	1A, 20W, 20 VA, 150 VDC/VAC
	Thermostat	3A Resistive - 120/240 VAC
		2.5A Inductive - 120/240 VAC
		3A Resistive - 12/24 VDC
		2A Inductive - 12/24 VDC
Operating Temperature Range	-40°F to 220°F (-40°C to 150°C)	
Thermostat Set Point	120°F to 170°F (49°C to 77°C)	
Thermostat Differential	Approximately <4% of Setpoint	
Switch Type	Level: Reed Switch, SPST Thermostat: Bimetal Creep Action	
Electrical Termination	24” Flying Lead, 18 AWG	
Ingress Protection	IP65	
Mounting Thread	1/4” NPT Male	
Mounting	Vertical	
Stem Material	Brass	
Float	Buna	
Minimum Liquid SG	0.65	
Wrench Flats	5/8”	
Maximum Pressure	140 PSI (9.6 BAR)	
Weight	0.22 lbs (0.1kg)	

Wiring Code

COMMON	BLACK
TEMPERATURE	BLUE
LEVEL	RED

Dimensions



Note:

To change the float configuration from Normally Open to Normally Closed. Remove the bottom stop and invert the float.

Please reference installation guide

LTS

Ordering Information

Example LTS - 1 4M - 2 AB - 3 FL - 4 A108 - 5 140NC

1 - Thread:

4M - 1/4" NPT male

2 - Float Configuration:

AB - Normally Open (standard)
Note: Configuration is reference to the absence of fluid

3 - Electrical Configuration:

FL - 24" long lead, 18 AWG

4 - Probe Length:

A108 - 4.25" (108 mm)

5 - Temperature (Farenheit)

120NC - 120°F , Normally Closed
120NO - 120°F , Normally Open
140NC - 140°F , Normally Closed
140NO - 140°F , Normally Open
160NC - 160°F , Normally Closed
160NO - 160°F , Normally Open
170NC - 170°F , Normally Closed
170NO - 170°F , Normally Open

*Custom options available. Please consult factory for details



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

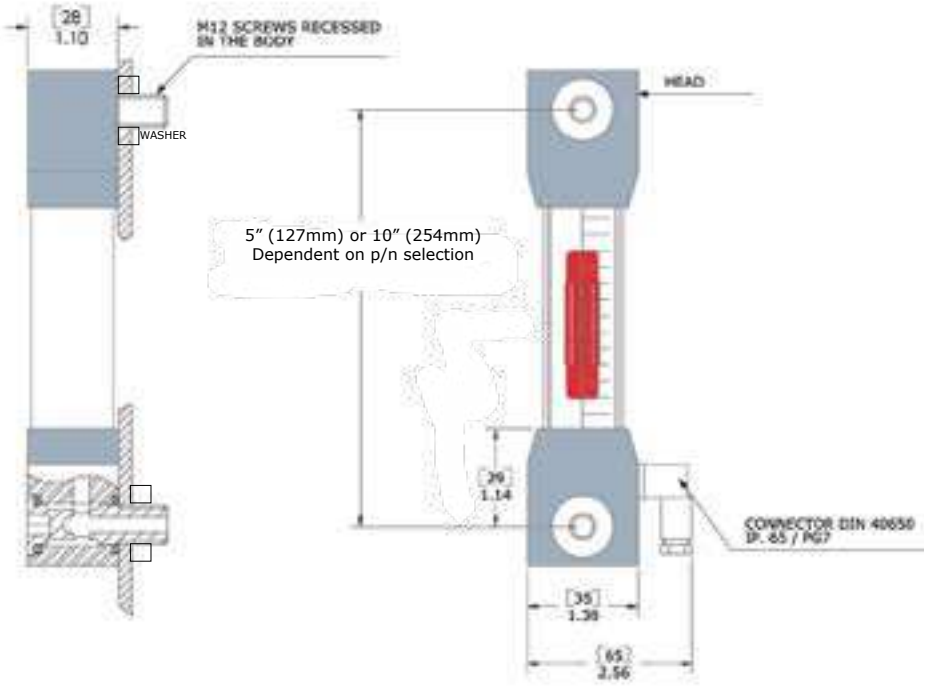
Electrical	1A, 20W, 20 VA. 150 VDC/VAC
Electrical Connection	DIN 43650 Form C, 9.4mm
Ingress Protection	IP65
Temperature Range	-4°F to 158°F (-20°C to 70°C)
Tube Material	Methacrylate Tube
Mounting Method	M12 x 1.75 Screws
Seal Material	Standard Oring: Nitrile Optional: Viton
Maximum Overpressure	72.5 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 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 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

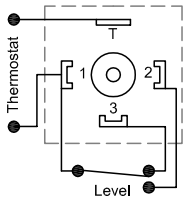
Specifications

Electrical	1A, 20W, 20 VA, 150VDC/VAC
Electrical Connection	DIN 43650 Form C, 9.4mm
Ingress 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 Oring: Nitrile Optional: Viton
Maximum Pressure	72.5 PSI (5 BAR)
Weight	0.47 lbs (0.23 kg)

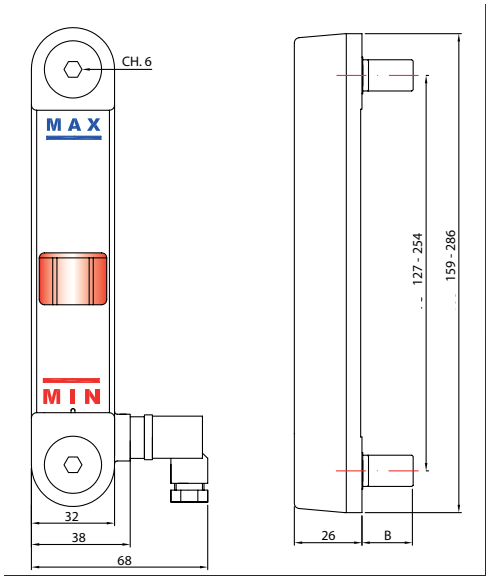
Wiring Code

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

- Reference to 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 x 1.75 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

HARNESS ASSEMBLY

Ordering Information

	1		2		3		4 (Optional)
Example	**CFPS2**	**-**	**3**	**-**	**18FL**	**-**	**HS**



Please refer to page 61 for connector diagram.
Not all connectors are offered on page 61 are available as a cable version.
See ordering code below.

Series	Number of Pins Available	Availability
CFPS2	3	wire, cable
FLDP	2, 3, 4	wire, cable
FLDR	2, 3	wire
FLWF	2, 3	wire
FLWM	2, 3	wire
FLCM	2, 3	wire
FLCF	2, 3	wire
FLPM	2, 3	wire
FLPF	2, 3	wire

1 - Connector Type:

CFPS2 - Metripack 150 P2S Series
FLDP - Deutsch DT Series Plug
FLDR - Deutsch DT Series Receptacle
FLWF - Weather Pack Female (Tower)
FLWM - Weather Pack Male (Shroud)
FLCM - Metripack 150 Series Male
FLCF - Metripack 150 Series Female
FLPM - Metripack 280 Series Male
FLPF - Metripack 280 Series Female

2 - Number of Pins:

2
3
4
- Select Number of Pins required.
Please see above details above for number of pins offered for the connector series.

3 - Wire or Cable Length :
(not all connector series is offered in cable; please refer to chart above)

18FL - 18” Flying Lead, 18 AWG, PVC, 600V, UL1015
79FL - 79” Flying Lead, 18 AWG, PVC, 600V, UL1015
120FL - 120” Flying Lead, 18 AWG, PVC, 600V, UL1015
C39 - 39” Cable, 20 AWG, PVC, Jacketed with braid/foil shielded
C79 - 79” Cable, 20 AWG, PVC, Jacketed with braid/foil shielded
C118 - 118” Cable, 20 AWG, PVC, Jacketed with braid/foil shielded
C196 - 196” Cable, 20 AWG, PVC, Jacketed with braid/foil shielded

4 - Options: (Omit if not required)

Blank - No Options required
HS - Heat Shrink (For flying lead configuration only)
SL - Split Flex (For flying lead configuration only)

ELECTRICAL CONFIGURATION

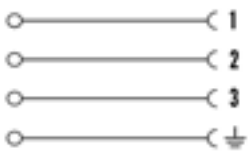
ANFIELD SENSORS INC.

			
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 SPDT	**FLPM**- Metripack 280 Series (Male) Only available for SPDT
			
HC DIN 43650 Form A Only available for SPDT	**HN** DIN 43650 Form A 1/2” Conduit Only available for SPDT	**FL** Flying Leads	**SP** 1/4” Spade Terminals
			
30 SKBA BOOT	**30** BOOT - FOR SPAL, SPFL, SPFLH, SPVL, SPVF	**EL** Male 1/2” NPT Conduit with 18” leads	

MISC

OPTIONS - CONNECTORS

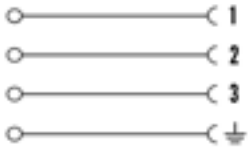




G1NU3000
DIN 43650-A 18mm (3 Pole)
Cable Grip PG9/PG11
MAX 250VAC/300VDC

Can be used for switches and solenoids.

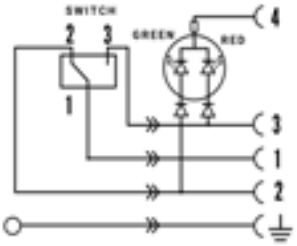




C18309N21 Cable Grip PG9
C18313N21 1/2" NPTF
DIN 43650-A 18mm (3 Pole)
Max 250VAC/300VDC

Can be used for switches and solenoids.
UL Recognized.

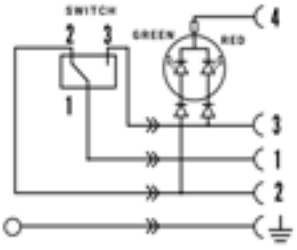




G1TU3Q81-BL
DIN 43650-A 18mm (3 Pole)
Cable Grip PG9/PG11
with 2 LED's (24VDC)

Used for switches. LED's show status of switch contacts.

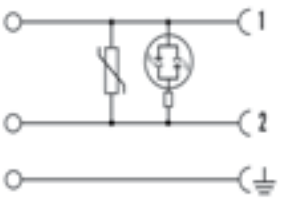




G1TU3Q82-BL
DIN 43650-A 18mm (3 Pole)
Cable Grip PG9/PG11
With 2 LED's (125VAC)

Used for switches. LED's show status of switch contacts.

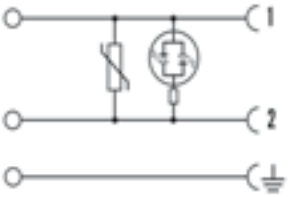




G1TU2VL1
DIN 43650-A 18mm (2 Pole)
Cable Grip PG9/PG11
LED and Varistor (24VDC)

Used for solenoids. Confirms voltage supply and provides surge protection.

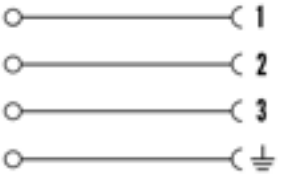




G1TU2VL2
DIN 43650-A 18mm (2 Pole)
Cable Grip PG9/PG11
LED and Varistor (125VAC)

Used for solenoids. Confirms voltage supply and provides surge protection.

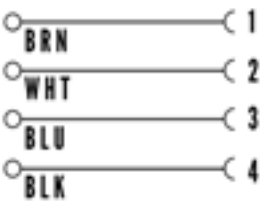




C1B0713A
DIN 43650-C 9.4mm (3 Pole)
Cable Grip PG7

Used for switches and transducers.





M12-C196-PUR
M12 cable (5m)
PUR Jacket

Used for switches and transducers.

OPTIONS - AVAILABILITY

ANFIELD SENSORS INC.

		DESCRIPTION	SPA	SWA	SMA	SDCA	SKBA	SKDA	SPAL	SLF	SPAH	DSPA	SVA	SPVL	TC	T200 T201
THREAD	**2G**	1/8 BSPP Male	●	●	o		●	●	●	●	●		●	●		o
	4G	1/4 BSPP Male	●	●	●	●	●	●	●	●	●	●	●	●	o	●
	4GF	1/4 BSPP Female				●				●						
	4GB	1/4 BSPP Male, Brass										o				
	2M	1/8 NPT Male	●	●	●		●	●	●	●	●		●	●		●
	4M	1/4 NPT Male	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	4MF	1/4 NPT Female				●				●						
	4GT	1/4 BSPT	●													
	6M	3/8 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			●	●			●
	2T	Teflon coated polyimide							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)	●	●	●	●	●	●	●	●		●	●			●
	OC	Oxygen Cleaned Switches	o	o	o	o	o	o					o			o
	SR	Snubber	●	●	●	●	●	●					●			●
	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		•	
Acetone		•	
Acetylene	•		
Air	•		
Alcohols	•		
Alkalies (weak)	•		
Alkalies (strong)		•	
Ammonia (Anhydrous)	•		
Ammonia (Hydroxide)		•	
Asphalt			•
Automotive Oils	•		
Beer	•		
Benzene			•
Boric Acid	•		
Brake Fluid		•	
Bunker Oil	•		
Butane	•		
Butyl Cellosolve		•	
Carbon Dioxide	•		
Carbon Monoxide	•		
Cellube		•	
Chlorobenzene			•
Citric Acid	•		
Coke Oven Gas			•
Coolanol	•		
Diesel Fuels	•		
Di-Ester Lube (MIL-L-7808)			•
Dowtherm A&E		•	
Ethanol	•		
Ether		•	
Ethylene	•		
Ethylene Glycol	•		
Freon 11, 12, 112, 114	•		
Freon 22		•	
Fyrquel		•	
Fuel Oil	•		
Gasoline	•		
Glycerin	•		
Helium	•		
Hexane	•		

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

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)

GLOSSARY

ANFIELD SENSORS INC.

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.
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













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