

## EXTRA LOW PRESSURE RANGE - SERIES 2000

MODELS:

2006	Single Switch,	Differential Non-Adjustable
206	Single Switch,	Differential Adjustable
2007	Two Switch,	Differential Non-Adjustable
207	Two Switch,	Differential Adjustable on 1 <sup>st</sup> Switch Only
2008	Single Switch,	Differential Non-Adjustable

All models are available as either Pressure or Vacuum sensitive switches and cover the range -5 mbarg to +500 mbarg in a group of 6 basic models.

Controls can be supplied with varying degrees of protection, and with various approvals for use in Explosion-proof/Flameproof areas. (Refer to list for options). More detailed information on these approvals can be found in the relevant sections of this catalogue.

Models falling within the range 0 to 500 mbar can be supplied as Vacuum switches (see code guide).

Materials used in the manufacture of sensing units and pressure chambers are according to customer requirements and operational application.

All switches are fitted with a mounting bracket as Standard (except Flanged Controls).

All switches are available with internal or external set point adjustment (External Adjustment is Standard).

For accuracy class and zone refer to leaflet 03/09.



PRESSURE AND VACUUM OPERATED CONTROLS						
OPERATING RANGE	DIFFERENTIAL NON-ADJUSTABLE	BASIC MODEL CODE RANGE SERIES CODE CODE	PROOF PRESSURE	MAX WORKING PRESSURE		
					Higher Proof Pressures Available. Consult Factory.	
-5 to +5 mbarg	0.1 mbar	1 – LO – 2008W – AO	1. 4 Bar	1.08 Bar		
-5 to +10 mbarg	0.1 mbar	2 – LO – 2008W – AO	1. 4 Bar	1.08 Bar	Re-calibration of Operating Range	
-5 to +25 mbarg	0.3 mbar	00 – 2006W – AO	1. 4 Bar	1.08 Bar	may be required if Maximum Working Pressure exceeds 20% above the top of the Operating	
7 to 70 mbarg	0.3 mbar	0 – 2006W – AO	1. 4 Bar	1.08 Bar		
15 to 150 mbarg	0.6 mbar	1 – 2006W – AO	1. 4 Bar	1.08 Bar		
25 to 500 mbarg	1.25 mbar	2 – 2006W – AO	1. 4 Bar	1.08 Bar	Range.	
		Proof Pressures over 1.4 Bar will				
-5 to +25 mbarg	1.2 to 5 mbar	00 – 206W – AO	1. 4 Bar	1.08 Bar	have High Tensile Steel Grade 12.9 Screws, Plated.	
7 to 70 mbarg	1.2 to 22 mbar	0 – 206W – AO	1. 4 Bar	1.08 Bar	·	
15 to 150 mbarg	2 to 45 mbar	1 – 206W – AO	1. 4 Bar	1.08 Bar	Proof Pressures up to 1.4 Bar will have Stainless Steel Screws	
25 to 500 mbarg	2.5 to 75 mbar	2 – 206W – AO	1. 4 Bar	1.08 Bar	Grade A2/A4.	

Standard switches contain one single pole double throw microswitch.

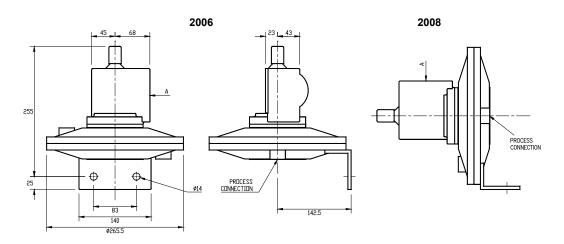
Standard non-adjustable differential switches have a BZ-R microswitch fitted.

Standard electrical rating 15 amps 400 vac.

Standard electrical entry M20 x 1.5 Int. through 360°.

Standard construction Áluminium Pressure Chamber and Nitrile Rubber Diaphragm (M.W.T. 90° C) = AO.

For construction other than above refer to the 2<sup>nd</sup> page of this leaflet for options and change code accordingly.



Terminal box, explosion-proof/flameproof enclosure, pneumatic valve fitted to surface 'A' \*This dimension will differ when pressure chamber material is from solid blank.

ELECTRICAL OUTPUTS (OF HARMADUSA AREAS)   CFX approved for Zone 2 areas EN EC 60079-2015 + A12018 (DI GO EC Comp - 2010 to +00°C) Certificate Number: BaseEd03ATEX0319X Base 4 Certifying Authority: SGS FinkC0 Q   E(d)   Alternative 2 the legal of the number Adjustage Differential base (CF) To EC For 0-2015 (EN EC 60079-12019). EN EC 60079-2015 + A12018 (DI GO EC PO-2016). EN EC 60079-12019. EN EC 60079-2015 + A12018 (CF) To EC For 0-2017 (EN EC 60079-12016). EN EC 60079-2016 (EN EC 60079-12016). Certificate Number: BSG Baserts Limited   H(A – K)   17.2 H(A) = B2.28 T7.2 H(A) = B2.27 T7.2 H(A) = B2.27 H(A) = B2.	DEGREE OF PROTECTION	WEATHERPROOF IP55 IP66	CODE W IP55 IP66	
<sup>(1)</sup> II 3G Exe en CII C T6 CG (Tame - 20°C to +60°C). Certifying Authority: SGS Baseefa Limited <b>ATEX approved for Zance 1 ansas</b> (CF) EN EC 60079-02016. EN 60079-12014 <b>C(F)</b> EN EC 60079-02016. EN 60079-12014 <b>O</b> (II 2 EX d) IB + 147 T6 Gb (Tame - 20°C to +60°C). Certificate Number: Baseefa2XTEX0026X Lissue 4 (aingle switch) '1 Certifying Authority: SGS Baseefa Limited <b>O</b> (II 2 EX d) IB + 142 T6 Gb (Tame - 20°C to +60°C). Certifying Authority: SGS Baseefa Limited <b>D</b> (II 2 EX d) IB + 142 T6 Gb (Tame - 20°C to +60°C). Certifying Authority: SGS Baseefa Limited <b>Intrinsic Safety. Gold Contact Microswitch</b> Classed as "Simple Electrical Apparatus". (ING RO): SGS Baseefa Limited <b>Intrinsic Safety. Gold Contact Microswitch</b> classed as "Simple Electrical Apparatus". (ING RO): 10 amp. 125 vao/vdc    WIS    All ranges with ave 1.5 the larger of the two-dy-dubite Differentials listed. and may be used Without certification in a barrie circuit. (IG EN G079-11: 2012, BE EN 50079-14: 2014 Para 3.5.5)    WIS    All ranges with ave 1.5 the larger of the two-dw-dy-dubite Differential is not available on aecond awtich. <b>S</b> P.D.T. <b>MICE LOAD N</b> and state ratings. <b>M</b> and state ratings. <b>S</b> P.D.T. <b>MICE S</b> Motor9-1 <b>M</b> and state ratings. </td <td>OUTPUTS (CE) (FOR HAZARDOUS AREAS)</td> <td>EN IEC 60079-0:2018, EN IEC 60079-15:2019, EN IEC 60079-7:2015 + A1:2018 I 3G Ex ec nC IIC T6 Gc (Tamb = -20°C to +60°C) Certificate Number: Baseefa03ATEX0319X Issue 4 Certifying Authority: SGS Fimko Oy A) EN IEC 60079-0:2018, EN IEC 60079-15:2019,</td> <td>E(d)</td> <td>0 0</td>	OUTPUTS (CE) (FOR HAZARDOUS AREAS)	EN IEC 60079-0:2018, EN IEC 60079-15:2019, EN IEC 60079-7:2015 + A1:2018 I 3G Ex ec nC IIC T6 Gc (Tamb = -20°C to +60°C) Certificate Number: Baseefa03ATEX0319X Issue 4 Certifying Authority: SGS Fimko Oy A) EN IEC 60079-0:2018, EN IEC 60079-15:2019,	E(d)	0 0
(CE)   EN IEC 60075-0:2018, EN 60075-1:2014   ************************************		I 3G Ex ec nC IIC T6 Gc (T <sub>amb</sub> = -20°C to +60°C) Certificate Number: BAS22UKEX0248X		
(UKCA)   EN IE C 60079-0:2018, EN 60079-1:2014   Differential Science and the set of	(CE)	EN IEC 60079-0:2018, EN 60079-1:2014 EN IEC 60070-0:2018, EN 60079-1:2014 EN IEC 60070-0:2018, EN 60079-0:2018 EN IEC 60070-0:2018, EN 60079-0:2018 EN IEC 60070-0:2018, EN 60070-1:2018 EN IEC 60070-0:2018 EN IEC 60070-	Н(А – К)	*1/*2 $H(B) = BZ-R$ *1/*2 $H(C) = BZ-2R-722$ *1 $H(D) = 91-SE1$ *1 $H(F) = 91-SE1-3N55$ *1 $H(I) = MT-4R$ *1/*2 $H(J) = BM-2R$
Intrinsic Safety. Gold Contact Microswitch classed as: "Simple Electrical Apparatus" and may be used without certification in a barrier circuit. (BS EN 60079-11: 2012, BS EN 60079-14: 2014 Para 3.5.5)   WIS   All ranges will have 1.5 x the larger of th two Non-Adjustable Differentials listed.     S.P.D.T. ALTERNATIVES   HIGH LOAD   10 amp, 125 vac/vdc   Prefix Range Code with 'X' and state ratings.     TWO SWITCH MODELS   Max. Setting Span = 30% of the Range Span Adjustable Differential is not available on second switch.   2007   E(d) H(D), H(F), H(D) Not available as Two Switch Model     TWIN SWITCH MODELS   Max. Setting Span = 30% of the Range Span Adjustable Differential is not available on second switch.   TW   Differential x 5     TWIN SWITCH WODELS   Max Setting Span = 30% of the Range Social second switch.   TW   Differential x 5     TWIN SWITCH WODELS   Max Setting Span = 30% of the Range Social second switch.   SMS   Ail ranges will have 8 x the larger of the two Non-Adjustable Differential is 15     VALVE SWITCHES   Poppet 3 port PIOLOperated 3 port   Prefix Range Codes: PV   Differential will be 8 x the larger of the two Non-Adjustable Differential is 16d. Differential will be 8 x the larger of the two Non-Adjustable Differential is 120; PV   Ail ranges will have 8 x the larger of the two Non-Adjustable Differential is 120; PV     SATELY VENED   Poppet 3 port PV   Frefix Range Codes: PV   T     MATERIAL <t< td=""><td>(UKC</td><td>A) EN IEC 60079-0:2018, EN 60079-1:2014</td><td></td><td>Electrical Ratings will vary depending on Microswitch Fitted.</td></t<>	(UKC	A) EN IEC 60079-0:2018, EN 60079-1:2014		Electrical Ratings will vary depending on Microswitch Fitted.
ALTERNATIVES   HIGH LOAD   10 amp, 125 vac/vdc   and state ratings.     TWO SWITCH MODELS (ELECTRICAL OUTPUT)   Max. Setting Span = 30% of the Range Span Adjustable Differential is not available on second switch.   2007   E(d), H(D), H(F), H(I) Not available as Two Switch Model     TWIN SWITCH MODELS (ELECTRICAL OUTPUT)   Twin Microswitches for simultaneous action   TW   Differential x 5     PNEUMATIC QUEEDTRICAL OUTPUT)   Poppet 3 port Plot Operated 3 port   SMS Prefix Range Code: Plot Operated 3 port   All ranges will have 8 x the larger of the two Non-Adjustable Differentials listed.     PRESSURE CHAMBER MATERIAL   Stainless Steel Phosphor Bronze   S   Z     DIAPHRAGM MATERIAL   Stainless Steel (Differential x 2) P.T.F.E. Viton (Differential x 1½)   T   X     SAFETY VENTED CONSTRUCTION   Prefix Range Code with: Prefix Series Code with: FOR VACUUM SERVICE   Prefix Series Code with: Prefix Series Code with: F   F     FOR VACUUM SERVICE   Prefix Pressure Chamber Material code with: '4" Flushout   Prefix Pressure Chamber Material code with: F   F     MANUAL RESET   Available on all Electrical & Pneumatic 2006/206 Series,   MRR (Reset on Rising Pressure)		Intrinsic Safety. Gold Contact Microswitch classed as 'Simple Electrical Apparatus' and may be used without certification in a barrier circuit.	WIS	All ranges will have 1.5 x the larger of the two Non-Adjustable Differentials listed.
MODELS   Adjustable Differential is not available on second switch.   207     TWIN SWITCH   Twin Microswitches for simultaneous action   TW   Differential x 5     MODELS   ElectricAL   207     VIPUTy   Twin Microswitches for simultaneous action   TW   Differential x 5     PNEUMATIC   Poppet 3 port   SMS   All ranges will have 8 x the larger of the two Non-Adjustable Differentials listed.     PNEUMATIC   Poppet 3 port   Prefix Range Code:   Differential will be 8 x the larger of the two Non-Adjustable Differentials listed.     PRESSURE   Stainless Steel   S   S     CHAMBER   Phosphor Bronze   Z   Z     DIAPHRAGM   Stainless Steel (Differential x 2)   T   X     Viton (Differential x 1½)   V   V   V     SAFETY VENTED CONSTRUCTION   Prefix Range Code with: G   F     FLANGES   Available on all models.   Prefix Series Code with: F   F     FOR VACUUM SERVICE   Prefix Pressure Chamber Material code with: F   Material code with: F   Material code with: F     FOR VACUUM SERVICE   Ya" B.S.P. Female standard (Rp <sup>1</sup> / <sub>4</sub> )   Alternatives available up to <sup>1</sup> / <sub>2</sub> "   CONNECTIONS   Ya" Flushout   <		HIGH LOAD 10 amp, 125 vac/vdc		
MODELS (ELECTRICAL OUTPUT)   Poppet 3 port   SMS Prefix Range Code: Pilot Operated 3 port   SMS Prefix Range Code: PV   All ranges will have 8 x the larger of the two Non-Adjustable Differentials listed.     PRESSURE CHAMBER MATERIAL   Stainless Steel Phosphor Bronze   S Z   S     DIAPHRAGM MATERIAL   Stainless Steel (Differential x 2) P.T.F.E. Viton (Differential x 1½)   T X     SAFETY VENTED CONSTRUCTION   Prefix Range Code with: G     FLANGES   Available on all models.   Prefix Series Code with: F     FOR VACUUM SERVICE   Prefix Series Code with: V   V     PROCESS   ¼" B.S.P. Female standard (Rp <sup>1</sup> /4) ¼" Flushout   Alternatives available up to ½"     MANUAL RESET   Available on all Electrical & Pneumatic 2006/206 Series,   MRR (Reset on Rising Pressure)	MODELS (ELECTRICAL	Adjustable Differential is not available on		
VALVE SWITCHES International system Prefix Range Code: two Non-Adjustable Differentials listed.   PRESSURE Stainless Steel S   CHAMBER Phosphor Bronze Z   MATERIAL Stainless Steel (Differential x 2) T   DIAPHRAGM Stainless Steel (Differential x 2) T   MATERIAL P.T.F.E. X   Viton (Differential x 1½) V   SAFETY VENTED CONSTRUCTION Prefix Range Code with:   FLANGES Available on all models.   Prefix Series Code with: F   FOR VACUUM SERVICE Prefix Series Code with:   VACUUM SERVICE Prefix Pressure Chamber Material code with:   F Ya" B.S.P. Female standard (Rp <sup>1</sup> /4)   CONNECTIONS Ya" Flushout   Prefix Pressure Chamber Material code with:   F MANUAL RESET	MODELS (ELECTRICAL	Twin Microswitches for simultaneous action	TW	Differential x 5
CHAMBER MATERIAL   Phosphor Bronze   Z     DIAPHRAGM MATERIAL   Stainless Steel (Differential x 2) P.T.F.E. Viton (Differential x 1½)   T X     SAFETY VENTED CONSTRUCTION   Prefix Range Code with: G     FLANGES   Available on all models.   Prefix Series Code with: F     FOR VACUUM SERVICE   Prefix Series Code with: V   V     PROCESS   ½" B.S.P. Female standard (Rp¼) CONNECTIONS   Alternatives available up to ½"     MANUAL RESET   Available on all Electrical & Pneumatic 2006/206 Series,   MRR (Reset on Rising Pressure)	= • •	Prefix Range Code		two Non-Adjustable Differentials listed.
MATERIAL   P.T.F.E.   X     Viton (Differential x 1½)   V     SAFETY VENTED CONSTRUCTION   Prefix Range Code with: G     FLANGES   Available on all models.   Prefix Series Code with: F     FOR VACUUM SERVICE   Prefix Series Code with: V     PROCESS   1/4" B.S.P. Female standard (Rp1/4)   Alternatives available up to 1/2"     V/4" Flushout   Prefix Pressure Chamber Material code with: F   F     MANUAL RESET   Available on all Electrical & Pneumatic 2006/206 Series,   MRR (Reset on Rising Pressure)	CHAMBER			
FLANGES   Available on all models.   Prefix Series Code with: F     FOR VACUUM SERVICE   Prefix Series Code with: V     PROCESS   1/4" B.S.P. Female standard (Rp1/4)   Alternatives available up to 1/2"     CONNECTIONS   1/4" Flushout   Prefix Pressure Chamber Material code with: F     MANUAL RESET   Available on all Electrical & Pneumatic 2006/206 Series,   MRR (Reset on Rising Pressure)		P.T.F.E.	Х	
FOR VACUUM SERVICE   Prefix Series Code with: V     PROCESS   ½" B.S.P. Female standard (Rp¼)   Alternatives available up to ½"     CONNECTIONS   ¼" Flushout   Prefix Pressure Chamber Material code with: F     MANUAL RESET   Available on all Electrical & Pneumatic 2006/206 Series,   MRR (Reset on Rising Pressure)	SAFETY VENTED C	DNSTRUCTION Prefix Range Code with:	G	
PROCESS   1/4" B.S.P. Female standard (Rp1/4)   Alternatives available up to 1/2"     CONNECTIONS   1/4" Flushout   Prefix Pressure Chamber Material code with: F     MANUAL RESET   Available on all Electrical & Pneumatic 2006/206 Series,   MRR (Reset on Rising Pressure)	FLANGES	Available on all models. Prefix Series Code with:	F	
CONNECTIONS   ¼" Flushout   Prefix Pressure Chamber Material code with: F     MANUAL RESET   Available on all Electrical & Pneumatic 2006/206 Series,   MRR (Reset on Rising Pressure)	FOR VACUUM SER	ICE Prefix Series Code with:	V	
				es available up to $\frac{1}{2}$ "