

SIRCO

## MODELS:

2009	
209	
2011	
211	

Single Switch, Differential Non-Adjustable Single Switch, Differential Adjustable Two Switch, Differential Non-Adjustable Two Switch, Differential Adjustable on 1<sup>st</sup> Switch Only

All models available are temperature sensitive switches, have vapour pressure filled temperature systems and cover the range between -30 and +360°C 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.

Materials used in the manufacture of Capillary, Bulb, Armour and Bulbwell are according to customer requirements and operational application.

All switches are fitted with a mounting bracket as Standard (except where Direct Mounting required).

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



TEMPERATURE CONTROLS							
OPERATING RANGE	DIFFERENTIAL NON-ADJUSTABLE	BASIC MODEL CODE	MAX WORKING				
-30 to +20°C 4°C 20 to 70°C 4°C		NLR1 – 2009W – SHD NLR2 – 2009W – SHD	120°C 150°C				
60 to 110°C	5.5°C	NR3 – 2009W – SHD	200°C				
90 to 160°C	5.5°C	R4 – 2009W – SHD	220°C				
140 to 200°C	6.5°C	R5 – 2009W – SHD	300°C				
190 to 360°C	7.5°C	R6 – 2009W – SHD	410°C				
	DIFFERE	NTIAL ADJUSTABLE					
-30 to +20°C	4 to 13°C	NLR1 – 209W – SHD	120°C				
20 to 70°C	4 to 10°C	NLR2 – 209W – SHD	150°C				
60 to 110°C	5.5 to 12°C	NR3 – 209W – SHD	200°C				
90 to 160°C	5.5 to 15°C	R4 – 209W – SHD	220°C				
140 to 200°C	6.5 to 20°C	R5 – 209W – SHD	300°C				
190 to 360°C	7.5 to 40°C	R6 – 209W – SHD	410°C				

Standard switches contain one single pole double throw microswitch.

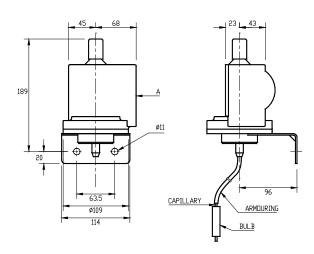
Standard electrical rating 15 amps 400 vac.

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

Standard construction, Models NLR1 & NLR2 have a 12.7mm diameter Stainless Steel bulb x 152mm long overall with 2 metres of Stainless Steel capillary & Stainless Steel armouring.

Models NR3, R4, R5 & R6 have a 12.7mm diameter Stainless Steel bulb x 114mm long overall with 2 metres of Stainless Steel capillary & armouring.

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'

DEGREE PROTECT			WEATHERPROOF IP55 IP66	I	CODE W IP55 IP66	
ELECTRICAL OUTPUTS (FOR HAZARDOUS AREAS)	<b>(СЕ)</b>	EN IEC 60079-7:2015	EN IEC 60079-15:2019,	E	E(d)	All ranges will have 2 x the larger of the two Non-Adjustable Differentials listed.
	(UKCA)	EN IEC 60079-7:2015	EN IEC 60079-15:2019, + A1:2018 6 Gc (Tamb = -20°C to +60°C) BAS22UKEX0248X <b>SGS Baseefa Limited</b>			
	(CE)	ATEX approved for Z. EN IEC 60079-0:2018, D II 2 G Ex db IIB + H2 Certificate Number: Certificate Number: Certifying Authority:		F	H(A – K)	*1/*2 H(A) = BZ-2R *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 *1/*2 H(K) = BM-1R Differentials Listed over and
	(UKCA)		EN 60079-1:2014 T6 Gb (Tamb -20°C to +60°C) BAS22UKEX0245X (single switch) *2 BAS22UKEX0246X (twin/two switch) *2 SGS Baseefa Limited			Electrical Ratings will vary depending on Microswitch Fitted. See Leaflet 22/02 for Details
				V	WIS	All ranges will have 1.5 x the larger of the two Non-Adjustable Differentials listed.
S.P.D.T. ALTERNATIVE	S	HIGH LOAD	10 amp, 125 vac/vdc			Prefix Range Code with 'X' and state ratings.
TWO SWITCH MODELS (ELECTRICAL OUTPUT)			an = 30% of the Range Span rential is not available on		2011 211	E(d), H(D), H(F), H(I) Not available as Two Switch Model
TWIN SWITCH MODELS (ELECTRICAL OUTPUT)	I	Twin Microswitc	hes for simultaneous action	Т	ſW	Differential x 2
PNEUMATIC VALVE SWITC	HES	Poppet 3 port Pilot Operated 3		Range Code:	SMS PV	All ranges will have 2 x the larger of the two Non-Adjustable Differentials listed. Differential will be 5 x the larger listed.
BULB		STAINLESS ST	EEL	S	6	
CAPILLARY		STAINLESS ST	EEL – over 2 metres specify length	ŀ	ł	
ARMOURING		STAINLESS ST	EEL – over 2 metres specify length	[	)	
THERMOWELI	LL	STAINLESS ST State bulbwell le after thermowell	ength in millimetres	Т	ſ	For additional information on thermowells see leaflet 06/23
MANUAL RESI (RISING or FALLING			Electrical & Pneumatic 2009/209 Series n-proof/Flameproof Models.			t on Rising Pressure) on Falling Pressure)