

## FEATURE

- Input modules for 0~1.0 /~2.0 /~3.0 /~4.0 mV/V or 0~10.0 /~20.0 /~30.0 /~40.0 mV/V programmable by dip switches
- Output V & mA selected via terminals and 0~5V / 0~10V / 1~5V / 2~10V / 4~20mA / 0~20mA selected via dip switches
- 22.5 mm thin profile
- CE Approved



*Slim type*

## ORDERING INFORMATION

**Remark:**

- When you select coding P1, P2 input range, please specify initial range.
- After change input or output range by dip switches (D-S), re-calibration is to be requested.

LBSC-SG 14

CODE	OUTPUT LOOP	CODE	I/P RANGE	CODE	I/P RANGE	CODE	O/P RANGE	CODE	AUX. POWER
1	Single output	V1	1.0 mV/V (*P1)	V8	10.0 mV/V (*P2)	C	0 - 20 mA	ADH	AC 85-265 V
		V4	2.0 mV/V (*P1)	V9	20.0 mV/V (*P2)	D	4 - 20 mA	D	DC 100-300 V
		V5	3.0 mV/V (*P1)	VA	30.0 mV/V (*P2)	3	0 - 5 V	ADL	DC 30-56 V
		V6	4.0 mV/V (*P1)	VB	40.0 mV/V (*P2)	4	0 - 10 V		
		VO	Specify	P1	Prog. (by D-S)	5	1 - 5 V		
				P2	Prog. (by D-S)	6	2 - 10 V		
						N	None		

## TECHNICAL DATA

Signal input (change input range by dip-switch)

Input Range	Input Signal (Selected by dip-switch on pcb)	Excitation Supply	Input Impedance
0 - 40 mV	P1 0-1.0/-2.0/-3.0/-4.0 mV/V	10Vdc ± 0.1%, 30mA	1MΩ
0 - 400 mV	P2 0-10.0/-20.0/-30.0/-40.0 mV/V		

Analogue output (change output range by dip-switch)

Output Range	Load Resistance	Output Signal (Selected by terminals)
0 - 20mAdc	≤ 430Ω	Output 1: Io(mA output by terminal 9+ & 8-) Output 1: Vo(V output by terminal 7+ & 8-)
4 - 20mAdc	≤ 430Ω	
0 - 10Vdc	≥ 1000Ω	
0 - 5Vdc	≥ 500Ω	
1 - 5Vdc	≥ 500Ω	

- Accuracy: ≤ ±0.2% of F.S. (delivered in customer's specify)  
≤ ±2% of F.S. after range change without recal
- Response time: ≤ 250msec (10%-90% of FS)
- Output ripple: ≤ ±0.1% of F.S.
- Span adjustment: ≤ ±10% of F.S.
- Zero adjustment: ≤ ±10% of F.S.

### Power

- Excitation supply: 5Vdc or 10Vdc ± 0.1%, 30mA
- Power supply: AC 85-265V/DC 100-300V, 50/60Hz  
or DC 30-56V specified in ordering information
- Power consumption: DC 4W, AC 5.0VA

### Environmental

- Operating Temperature: 0-60 °C
- Operating humidity: 20-95% RH, Non-condensing
- Temperature Coefficient: ≤ 100PPM/°C (0-50 °C)
- Storage temperature: -10-70 °C
- Protection: IP 42

### Mechanical

- Dimensions: 81.8mm x 99mm x 22.5mm
- Housing: Self-extinguishing, black ABS, UL94V0
- Terminals: Screw terminal, up to 2 x 2.5mm<sup>2</sup> wire
- Mounting: 35mm DIN rail (EN50022)
- Weight: 250g

### Specification

- Electrical Safety: IEC 61010 (Installation category 3)
- EMC: EN 61326
- Electric Isolation: AC 2.0KV for 1min  
Between Power / Input / Output / Case
- Insulation resistance: ≥ 100MΩ at 500Vdc

## ADJUSTMENT

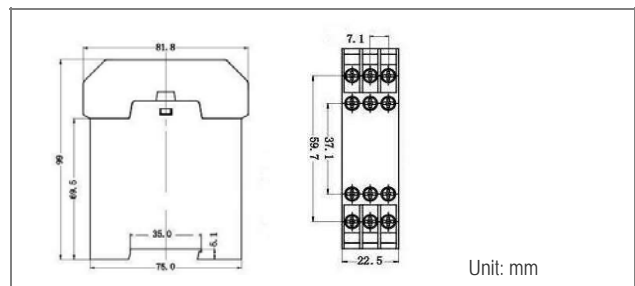
**Signal input**

mV / V INPUT : (CODE: P1)					mV / V INPUT : (CODE: P2)				
SIGNAL RANGE	DIP SWITCH (ZA1)				SIGNAL RANGE	DIP SWITCH (ZA1)			
	SW1	SW2	SW3	SW4		SW1	SW2	SW3	SW4
0 - 1.0 mV/V	on				0 - 10.0 mV/V	on	on		
0 - 2.0 mV/V		on			0 - 20.0 mV/V		on	on	
0 - 3.0 mV/V			on		0 - 30.0 mV/V			on	on
0 - 4.0 mV/V				on	0 - 40.0 mV/V				on

**Signal output**

SIGNAL RANGE	DIP SWITCH - ZB1 (ZB1 for O/P)				DIP SWITCH - ZB2 (ZB2 for O/P)			
	OUTPUT				OUTPUT			
	SW1	SW2	SW3	SW4	SW1	SW2	SW3	SW4
0 - 5 V				on	on	on	on	on
0 - 10 V				on	on	on	on	on
1 - 5 V				on	on	on	on	on
2 - 10 V				on	on	on	on	on
0 - 20 mA				on	on	on	on	on
4 - 20 mA				on	on	on	on	on

## DIMENSIONS



## CONNECTION DIAGRAM

