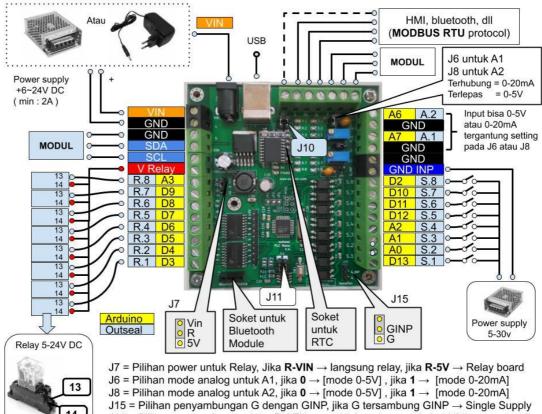
LAMPIRAN

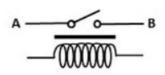


J10 = Pilihan penyambungan jalur RX-TX, agar tidak perlu copot kabel HMI saat upload J11 = Pilihan penyambungan jalur I2C, Untuk menjadikan PLC sebagai modul

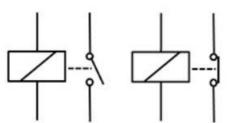


14

Simbol Relay



atau



Normally Open Normally Close (NO) (NC)

SONGLE RELAY



RELAY ISO9002

SRD



1. MAIN FEATURES

 Switching capacity available by 10A in spite of small size design for highdensity P.C. board mounting technique.

- UL,CUL,TUV recognized.
- Selection of plastic material for high temperatureand better chemical solution performance.
- Sealed types available.
- Simple relay magnetic circuit to meet low cost of mass production.

APPLICATIONS

• Domestic appliance, office machine, audio, equipment, automobile, etc.

(Remote control TV receiver, monitor display, audio equipment high rushing current use application.)

ORDERING INFORMATION

SRD	XX VDC	S	L	С
Model of relay	Nominal coil	Structure	Coil sensitivity	Contact
	voltage			form A:1 form A
SRD	03 1 05 1 06 1 09 1 12 1 24 1 48	S:Sealed type	L:0.36W	B:1 form B
	VDC	F:Flux free type	D:0.45W	C:1 form C

2. RATING

CCC	FILE NUMBER:CH0052885-2000	7A/240VDC
CCC	FILE NUMBER:CH0036746-99	10A/250VDC
UL /CUL	FILE NUMBER: E167996	10A/125VAC 28VDC
TUV	FILE NUMBER: R9933789	10A/240VAC 28VDC

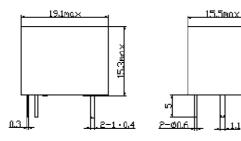
5. DIMENSION_(unit:mm)

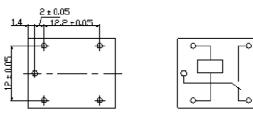
DRILLING(unit: mm)

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WIRING DIAGRAM





COIL DATA CHART (AT20°C)

Coil	Coil	Nominal	Nominal	Coil	Power	Pull-In	Drop-Out	Max-Allowable
Sensitivity	Voltage	Voltage	Current	Resistance	Consumption	Voltage	Voltage	Voltage
Sensitivity	Code	(VDC)	(mA)	(Ω) ±10%	(W)	(VDC)	(VDC)	(VDC)
SRD	03	03	120	25	abt. 0.36W	75%Max.	10% Min.	120%
(High	05	05	71.4	70				
Sensitivity)	06	06	60	100				
	09	09	40	225				
	12	12	30	400				
	24	24	15	1600				
	48	48	7.5	6400				
SRD	03	03	150	20	abt. 0.45W	75% Max.	10% Min.	110%
(Standard)	05	05	89.3	55				
	06	06	75	80				
	09	09	50	180				
	12	12	37.5	320				
	24	24	18.7	1280				
	48	48	10	4500	abt. 0.51W			

7. CONTACT RATING

Т		SRD
У	FORM C	FORM A
р		
е		
Item		
Contact Capacity Resistive Load (cosΦ=1)	7A 28VDC 10A 125VAC 7A 240VAC	10A 28VDC 10A 240VAC
Inductive Load	3A 120VAC	5A 120VAC
$(\cos\Phi=0.4 \text{ L/R}=7\text{msec})$	3A 28VDC	5A 28VDC
Max. Allowable Voltage	250VAC/110VDC	250VAC/110VDC
Max. Allowable Power Force	800VAC/240W	1200VA/300W
Contact Material	AgCdO	AgCdO

8. PERFORMANCE (at initial value)

Туре	
Item	SRD
Contact Resistance	100mΩ Max.
Operation Time	10msec Max.
Release Time	5msec Max.
Dielectric Strength	
Between coil & contact	1500VAC 50/60HZ (1 minute)
Between contacts	1000VAC 50/60HZ (1 minute)
Insulation Resistance	100 MΩ Min. (500VDC)
Max. ON/OFF Switching	
Mechanically	300 operation/min
Electrically	30 operation/min
Ambient Temperature	-25°C to +70°C
Operating Humidity	45 to 85% RH
Vibration	
Endurance	10 to 55Hz Double Amplitude 1.5mm
Error Operation	10 to 55Hz Double Amplitude 1.5mm
Shock	
Endurance	100G Min.
Error Operation	10G Min.
Life Expectancy	~
Mechanically	10 [′] operations. Min. (no load)
Electrically	10 ⁵ operations. Min. (at rated coil voltage)
Weight	abt. 10grs.

Application

The breadth of the BCH8 contactor range satisfies the most application cases. BCH8 contactors can be combined with auxiliary control, protection and indication functions. The contactors are produced according to IEC61095(GB/T17885).

BCH8 contactors can be used to remote control applications in alternative networks: • lighting, heating, ventilation, roller blinds, sanitary hot water

• mechanical ventilation systems, etc



BCH8 contactors are available in two versions:

- Contactors without manually-operated
- Contactors with manually-operated.









Туре	Rating(ln)	Control voltage (V	Contact	Width in 9 mm modules	
	AC-7a	AC-7b	AC)(50/60Hz)			
1P A1 A1 R1	16A	6A	24	1NO		
	20A	7A	110		2	
A2 A2 R2	25A	9A	230	1NC		
2Р						
A1 R1 R3	16A	6A	24	2NO		
	20A	7A	 110	1NO+1NC	2	
A2 _{R2 R4}			230	2NC		
	25A	9A				
A1 R1	32A	12A	24	2NO		
	40A	18A		1NO+1NC	4	
42 R2			230	2NC		
	63A	25A				
A1			24			
	100A	-	110	2NO	6	
A2			230			
3P						
	16A	6A	24	3NO		
A1						
	20A	7A	110		4	
A2	05.4		230	3NC		
	25A	9A				
A <u>1</u> R1R3R5	32A	12A	24	3NO		
⊥- [*] /- [*] /- [*] /	40A	18A	110		6	
A2 R2 R4 R6	63A	25A	230			
				3NC		

4P					
	16A	6A			
A1			24	4NO	
	20A	7A	110	4NC	4
A2	25A			2NO+2NC	
A1 R1 R3 R5 R7		9A	230	3NO+1NC	
A2 R2 R4 R6 R8	32A	12A	24	4NO	
	40A	18A		4NC	
A1 R1 R3			110	2NO+2NC	6
A2 R2 R4	63A	25A	230	3NO+1NC	
A1 R1					
	100A	-	24		
			110	4NO	12
A2 R2			230		

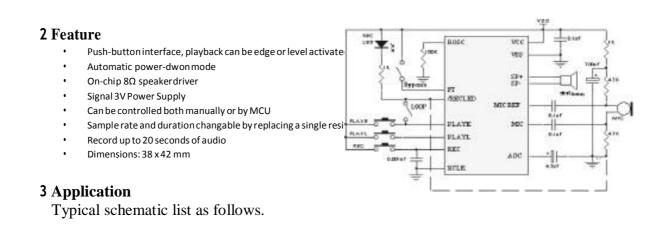
ISD1820 Voice Recorder User Guide



1 Introduction

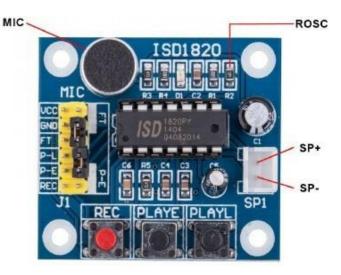
Voice Record Module is base on ISD1820, which a multiple- message record/playback device.

It can offers true single- chip voice recording, no- volatile storage, and playback capability for 8 to 20 seconds. The sample is 3.2k and the total 20s for the Recorder. This module use is very easy which you could direct control by push button on board or by Microcontroller such as Arduino, STM32, ChipKit etc. Frome these, you can easy control record, playback and repeat and so on.



If you want change record duration, an external resistor is necessary to select the record duration and sampling frequency, which can range from 8-20 seconds (4-12kHz sampling frequency). The Voice Record Module of our provide default connect 100k resistor by short cap.

ROSC	Duration	Sample Rate	Bandwidth
80K Ω	8 secs	8. 0KHz	3. 4KHz
100K Q	10 secs	6. 4KHz	2. 6KHz
120K Ω	12 secs	5. 3KHz	2. 3KHz
160K Ω	16 secs	4. 0KHz	1. 7KHz
200K Ω	20 secs	3. 2KHz	1. 3KHz



So the default record duration is 10s.

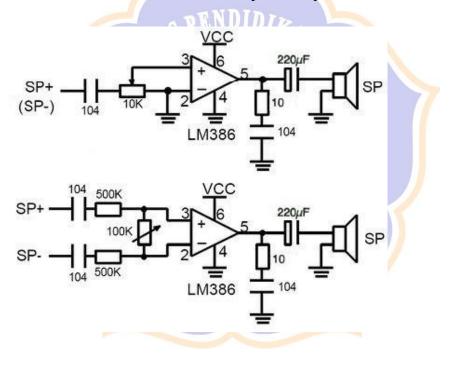
- 1. VCC-3.3V powersupply
- 2. GND-Powerground
- REC-The REC input is an active-HIGH record signal. The module starts recording whenever REC is HIGH. This pin must remain HIGH for the duration of the recording. REC takes precedence over either playback (PLAYL or PLAYE) signal.
- 4. **PLAYE**-Playback, Edge-activated: When a HIGH-going transition is detected on continues until an End-of-Message (EOM) marker is encountered or the end of the memory space is reached.
- 5. PLAYL Playback, Level-activated, when this input pin level transits for LOW to HIGH, a playback cycle is initiated.
- $6. \qquad \text{Speaker Outputs} \text{The SP+ and SP- pins provide direct drive for loudspeakers with impedances as low as Ω. }$
- $7. \qquad \textbf{MIC}-\textbf{Microphone Input, the microphone input transfers its signals to the on-chip preamplifier.}$
- 8. **FT** Feed Through: This mode enable the Microphone to drive the speaker directly.
- 9. **P-E** Play the records endless

Record Operate Guide

- 1. Push REC button then the RECLED will light and keep push until record end.
- 2. Release the REC button.
- 3. Select Playback mode: PLAYE, just needpush one time, and will playback all of the record or power down; PLAYL, you need always push this button until you want to stop playback record or end; When short P-E jumper the record will playback time a time until jumper off or power down.
- 4. FT mode, when short FT jumper, that means all of you speak to MIC will direct playback to Speaker.

4 Power Amplifier Circuit

If you want extern power amplifier circuit to Speakers, you can use LM386, D2283, D2322, TA7368, MC34119 etc amplifier IC. Note, SP+ or SP- is you do not want to use, must vacant, do not connect to GND. Used LM386 power amplifier circuit as below:



Power supply

