

SB20

Level controller or power interface module with alarm sounder



The SB20 is a versatile level control or interface module that can also be used in many other process control applications.

One level switch can be connected for an alarm or two level switches to start and stop a submersible pump or a solenoid valve for emptying/filling function.

It works with all kind of level switches, including conductive probes, as well as pressure switches or other limit switches.

The module can be used as a dry-running protection, with a pressure switch or filling level control switch, to start and stop a pump.

Power supply 240/415 Vac
Two outputs:
Main output SPGD 20(25) Amps 250V
Secondary output SPGD 10(14) Amps 250V

LED indicator and beeper for low level alarm

- Primary output can directly control motors up to 2HP cosφ 0.4-0.5 single phase
- 2 SPGD relay outputs
- Alarm indicator LED and Beeper
- 1, 2 or 3 sensor inputs
- 240 or 415Vac supply
- DIN rail mounting

Technical Specification

Supply Voltage	V	240 or 415ac
Sensor Voltage	V	175ac
Sensor Inputs		switch contacts or conductive probes

Output ratings

		Output 1	Output 2
Contact form		SPGD	SPGD
Switching Power Max ac	VA	1500	750
Switching Power Max dc	W	500	not approved
Switching Voltage AC Max	V	250	250
Switching Voltage DC Max	V	75	not approved
Switching Current Max Resistive	A	20	10
	(n/c contact)		
	A	10	10
Switching Current Max Inductive	A	8	4

Standard Parts	Inputs	Outputs
SB20	1, 2 or 3	2

Other versions can be made for particular applications. Please contact Cynergy3 in Japan for details.

Mechanical Diagram



Terminal Assignment

1	Supply Neutral
3	Supply Live 240Vac
4	Supply Live 415Vac
9	Output 1 no contact
10	Output 1 no contact
11	Output 1 common
13	Output 2 no contact
14	Output 2 common
15	Output 2 no contact
19-20	Low voltage input sensor
21-22	Sensor common input
23	Sensor minimum level
24	Sensor maximum level

Low voltage input 19-20 for pressure/float switch with contacts closed at minimum pressure or level switch with contacts closed when level low. **NB** These terminals must be bridged if no sensor is connected.

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