General Specifications

GS 77J09H21-01E

Model WH1K Limit Alarm

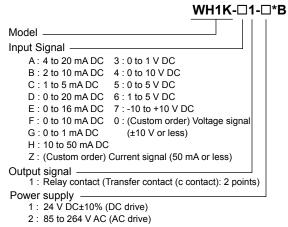


General

The WH1K is a compact, front terminal connection type Limit Alarm that receives DC current or DC voltage signals, compares them with internal setting values and outputs alarm contacts.

• Two alarm outputs: each output has an alarm, hysteresis and direction set points.

Model and Suffix Codes



Ordering Information

Specify the following when ordering.

• Model and suffix codes :e.g. WH1K-A1-2*B

Factory Default Values

The factory default values are as follows:

- Direction of alarm action:
 - Alarm 1, Direct action (DIR); Alarm 2, Reverse action (RVS)
- Alarm settings: Alarm 1, 100%; Alarm 2, 0%
 Hysteresis:

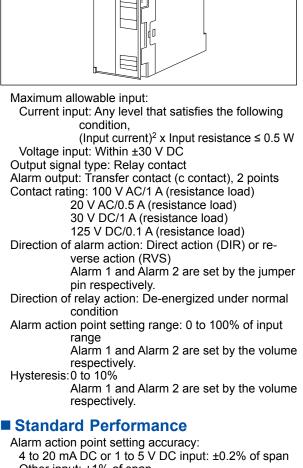
Alarm 1, 1%; Alarm 2, 1%

(Basically, although the above settings should be set by users, can also be specified before shipment.)

Input/Output Specifications

Input signal: DC current or DC voltage signal Input resistance:

DC current input	Input resistance	DC voltage input	Input resistance	
4 to 20 mA	250 Ω	0 to 1 V	1 MΩ durning power on 100 kΩ during power off	
2 to 10 mA	500 Ω	0 to 10 V		
1 to 5 mA	1 kΩ	0 to 5 V		
0 to 20 mA	250 Ω	1 to 5 V		
0 to 16 mA	250 Ω	-10 to +10 V		
0 to 10 mA	500 Ω			
0 to 1 mA	1 kΩ			
10 to 50 mA	100 Ω			



Other input: $\pm 1\%$ of span Reproducibility of alarm action point: $\pm 0.05\%$ of span Insulation resistance: 100 M Ω or more at 500 V

DC between input and output, input and power supply, input and ground, output and power supply, output and ground, and power supply and ground.

Withstand voltage:

- DC drive 1000 V AC/min. between input and output, output and power supply, and input and power supply.
- AC drive 1000 V AC/min. input and output, input and power supply, input and ground, output and power supply, output and ground, and power supply and ground.

Environmental Conditions

Operating temperature range: 0 to 50°C Operating humidity range: 5 to 90% RH (no condensation)

Power supply voltage: 85 to 264 V AC, 47 to 63 Hz or 24 V DC±10%



Effect of ambient temperature change: ±0.2% of span or less for a temperature change of 10°C. Current consumption: 24 V DC 60 mA Power consumption: 100 V AC 6 VA

Mounting and Dimensions

Material: ABS resin (Case body) Mounting method: Rack, Wall or DIN rail mounting Connection method: M4 screw terminals External dimensions: 72 × 48 × 127 mm (H x W x D) Weight: DC; Approx. 150 g, AC; Approx. 300 g

Standard Accessories

Tag number label: 1 Mounting block: 2 Mounting screw: M4 screw x 4

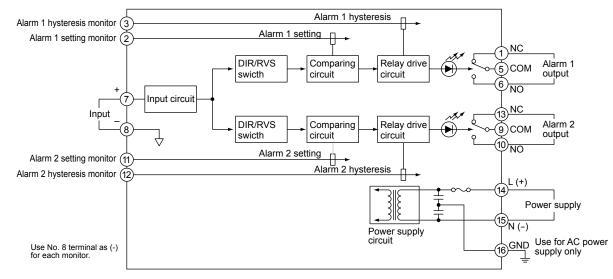
Block Diagram

Terminal Assignments

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1	Alarm 1 output	(NC)		
2	Alarm 1 setting monitor			
3	Alarm 1 hysteresis monitor			
5	Alarm 1 output	(COM)		
6	Alarm 1 output	(NO)		
7	Input	(+)		
8	Input	(-)		
9	Alarm 2 output	(COM)		
10	Alarm 2 output	(NO)		
11	Alarm 2 setting monitor			
12	Alarm 2 hysteresis monitor			
13	Alarm 2 output	(NC)		
14	Supply	(L+)		
15	Supply	(N–)		
16	Ground	(GND)*		

*: Use for AC power supply only.



External Dimensions

