HF3501/ HF3508 FLASHER



Features

- Special integrate circuit, good performance
- Special high-performance contacts, ultra-long Electrical endurance
- Surface mounting technology, advanced craftwork
- Solid base design, stable structure
- Ingress protection: IP50

Typical Applications

Turn signal & Hazard warning lamp control

TYPE

Type	Product series name	Dimensions	Output mode
HF3501	Automotive flasher	(30 × 30 × 40) mm	Single output
HF3508 1)	Miniature automotive flasher	(30 × 30 × 30) mm	Single output

1) The application of HF3508 series can be expanded to halogen lamp load of (21W+5W)+5W(LED).

CHARACTERISTICS

Type		HF3501	HF3508
Nominal voltage		12VDC / 24VDC	12VDC
Operating voltage	12V System	9VDC to 16VDC	9VDC to 16VDC
	24V System	18VDC to 32VDC	—
Nominal load	Turning mode	2×21W + 5W	2×21W + 5W
	Hazard mode	2×(2×21W + 5W)	2×(2×21W + 5W)
	Lamp outage mode	21W + 5W	21W + 5W
Flash frequency		(60 to 110)OPS / min	(60 to 110)OPS / min
Lamp failure flash frequency		(140 to 230)OPS / min	(140 to 230)OPS / min
Electrical endurance	Turning 15s on/15s off 12V	1000h	1000h
	Hazard continuously 12V	360h	360h
	Turning 15s on/15s off 24V	400h	—
	Hazard continuously 24V	200h	—
Duty cycle		30% to 70%	30% to 70%
Ambient temperature		-40˚C to 85˚C	-40˚C to 85˚C
Vibration resistance		10Hz to 200Hz 49m/s^2	10Hz to 200Hz 49m/s^2
Shock resistance		196m/s^2	196m/s^2
Unit weight		Approx.40g	Approx.30g
Mechanical performance	Cover retention	160N min.	160N min.
	Terminal retention	100N min.	100N min.

ORDERING INFORMATION

	HF3501 / HF3508 /	12	-H	-B	R	(XXX)
Type	Suffix (A-Z) is for specific extending application					
Nominal voltage	**12**: 12VDC **24**: 24VDC (Only for HF3501)					
Contact arrangement	**H**: 1 Form A					
Mounting mode	**B:** With bracket	**Nil:** Without bracket				
Polarity logic	**R**: Reverse polarity	**Nil**: Positive polarity				
Special code[1)]	**XXX:** Customer special requirement	**Nil:** Standard				

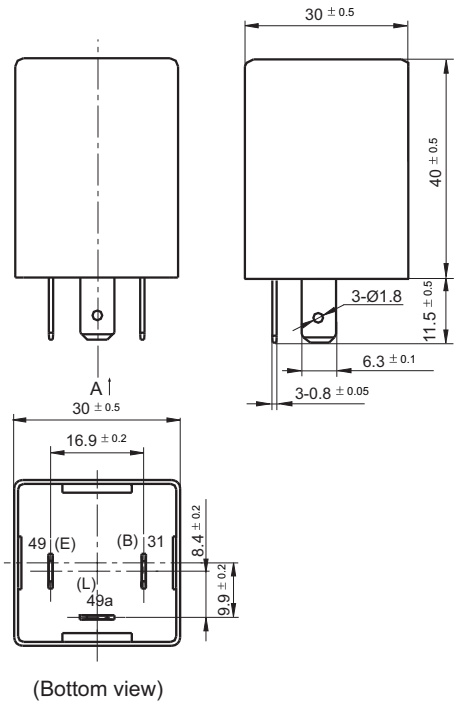
Notes: 1) The customer special requirement express as special code after evaluating by Hongfa.

OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

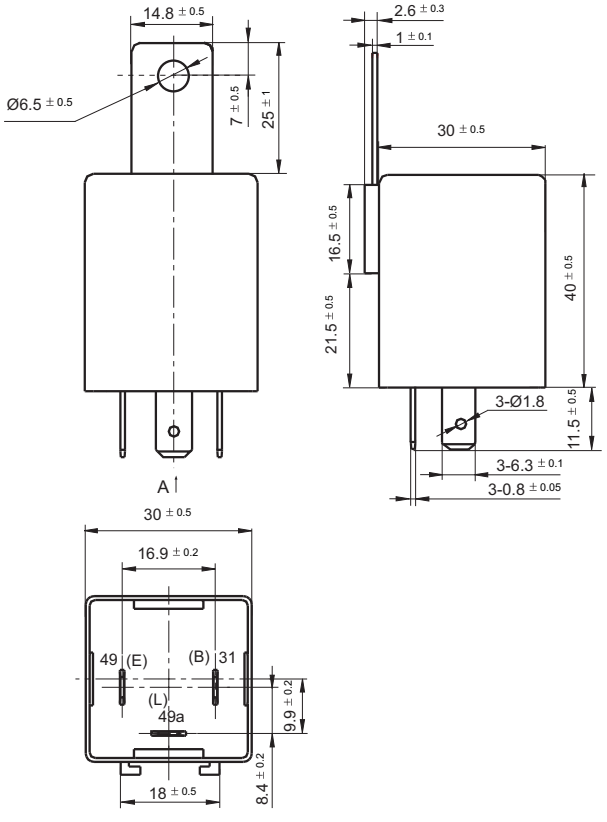
OUTLINE DIMENSIONS

HF3501/□□-H-□(XXX)



(Bottom view)

HF3501/□□-H-B□(XXX)



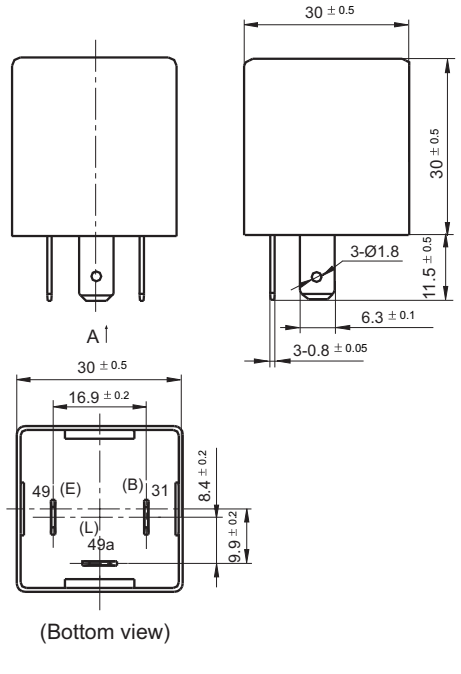
(Bottom view)

OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

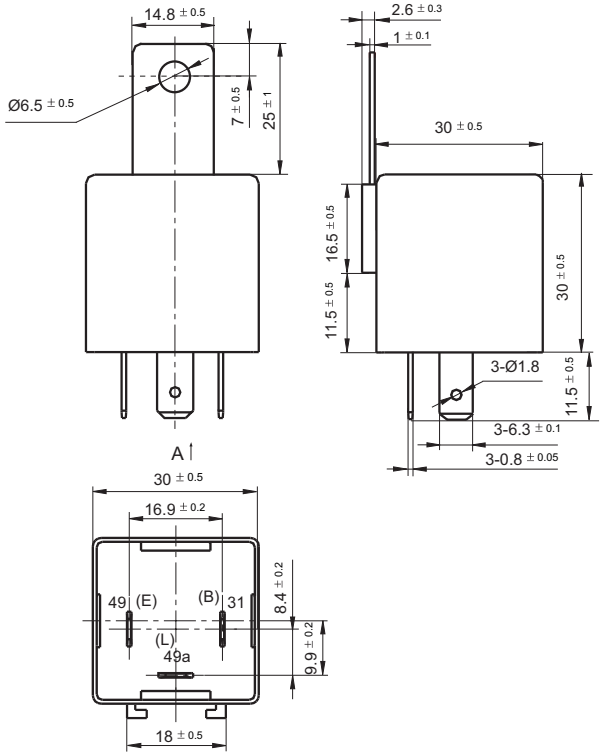
OUTLINE DIMENSIONS

HF3508/12-H-□(XXX)



(Bottom view)

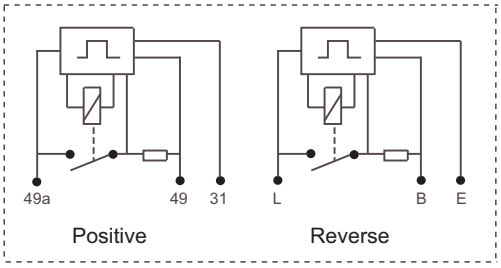
HF3508/12-H-B□(XXX)



(Bottom view)

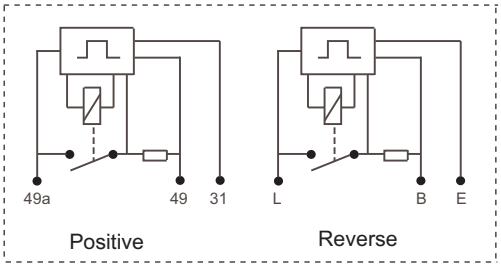
WIRING DIAGRAM

HF3501



1) As shown in wiring diagram (combine bottom view), the terminal 49(B) is connected with positive electrode of power supply of 12V or 24V. The 31(E) terminal is connected with negative electrode of power supply, the 49a(L) is connected with lamp load. When lamp load is 2 x 21W + 5W or 4 x 21W + 2 x 5W, the flasher will control lamp to flash by the frequency of (60 to 110) times per minute. When lamp load is 1 x 21W + 5W (one lamp of 21W is broken down), the flasher will control lamp to flash by frequency of (140 to 230) times per minute.

HF3508



1) As shown in wiring diagram (combine bottom view), the terminal 49(B) is connected with positive electrode of power supply of 12V. The 31(E) terminal is connected with negative electrode of power supply, the 49a(L) is connected with lamp load. When lamp load is 2 x 21W + 5W or 4 x 21W + 2 x 5W, the flasher will control lamp to flash by the frequency of (60 to 110) times per minute. When lamp load is 1 x 21W + 5W (one lamp of 21W is broken down), the flasher will control lamp to flash by frequency of (140 to 230) times per minute.

Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice.
In case there is specific criterion (such as mission profile, technical specification, PPAP etc.) checked and agreed by and between customer and Hongfa, this specific criterion should be taken as standard regarding any requirement on Hongfa product.
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