

HF3506/ HF3506A

FLASHER



Features

- Surface mounting technology, advanced craftwork
- Solid base design, stable structure
- Ingress protection: IP52
- Double output

Typical Applications

Turn signal & Hazard warning lamp control

TYPE

| Type | Nominal voltage VDC | Operating voltage range VDC | Nominal lamp load W | Control mode |
|--------------|---------------------|-----------------------------|---------------------|---------------------|
| HF3506/12-L | 12 | 10 to16 | 2 x 21+5 | with IG function |
| HF3506A/12-G | 12 | 10 to16 | 2 x 21+5 | without IG function |

CHARACTERISTICS

| | | | |
|------------------------------|------------------------------------|-----------|--|
| Flash frequency | (60 to 110)ops / min | | |
| Lamp failure flash frequency | (140 to 230)ops / min | | |
| Duty Cycle | 30% to 70% | | |
| Electrical endurance | 1000h(15s on,15s off, rate load) | | |
| | 360h(continuous, alarming) | | |
| Internal voltage drop | 500mV (5A) max. | | |
| Ambient temperature | -40°C to 85°C | | |
| Vibration resistance | 10Hz to 200Hz , 49m/s ² | | |
| Shock resistance | 196m/s ² | | |
| Unit weight | Approx. 35g | | |
| Mechanical performance | Cover retention | 160N min. | |
| | Terminal retention | 100N min. | |

ORDERING INFORMATION

| | | | | | |
|-----------------------|---|----|----|----|-------|
| Type | HF3506 / HF3506A/ Suffix (A-Z) is for specific extending application | 12 | -G | -B | (XXX) |
| Nominal voltage | 12: 12VDC | | | | |
| Trigger level | G: High level start up L: Low level start up | | | | |
| Mounting mode | B: With bracket Nil: Without bracket | | | | |
| Customer special code | | | | | |



HONGFA RELAY

ISO9001, ISO/TS16949, ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

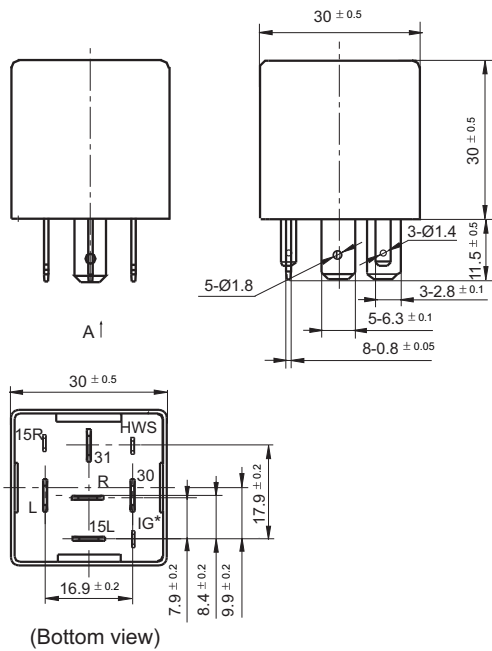
2014 Rev. 1.01

OUTLINE DIMENSIONS, WIRING DIAGRAM

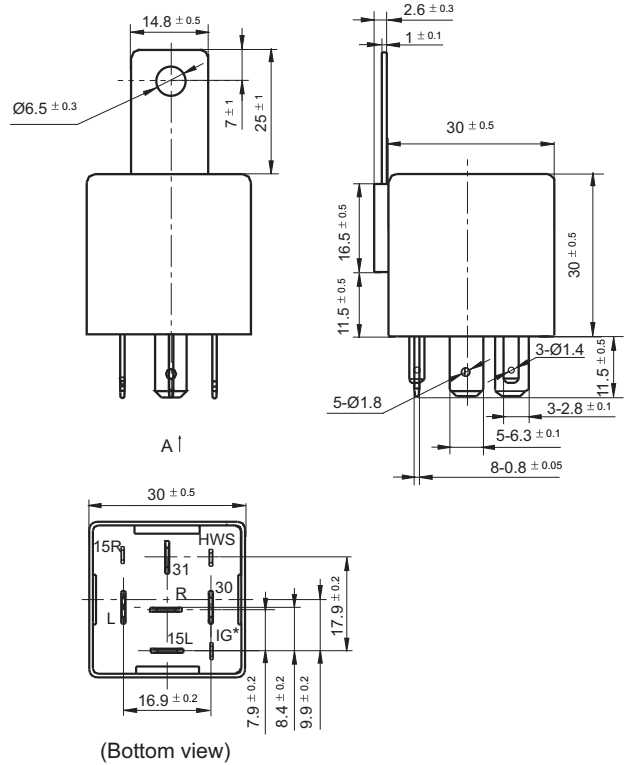
Unit: mm

OUTLINE DIMENSIONS

HF3506/□□-□(XXX)



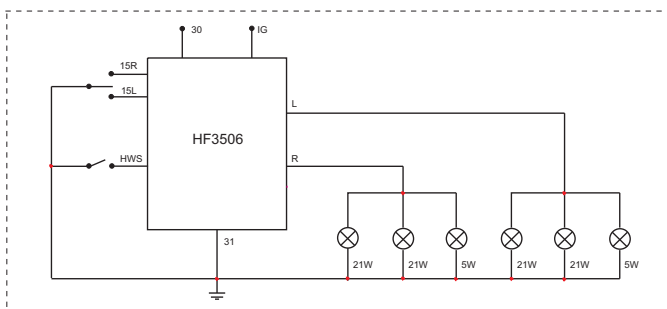
HF3506/□□-□-B(XXX)



Remark: * There is no IG terminal for HF3506A.

WIRING DIAGRAM

HF3506/12-L-□(XXX)



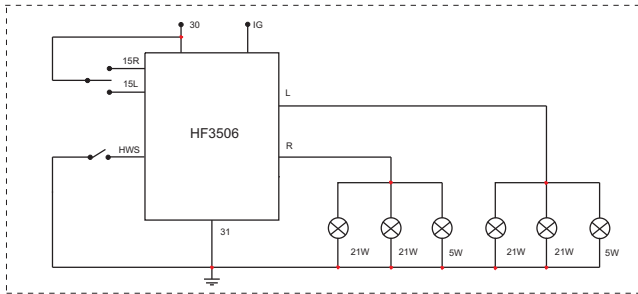
As shown in wiring diagram, the terminal 30 is connected with positive electrode of power supply. The 31 terminal is connected with negative electrode of power supply, the IG terminal is connected with IG power supply, 15R is connected with turn right lamp switch (active low), 15L is connected with turn left lamp switch (active low), HWS terminal is connected with hazard warning switch (active low), R terminal is connected with turn right lamp load, L terminal is connected with turn left lamp load. When load is $2 \times 21W + 5W$ or $4 \times 21W + 2 \times 5W$, the flasher will control lamp to flash by the frequency of (60 to 110) times per minute. When load is $21W + 5W$ (one lamp of 21W is broken down), the flasher will control lamp to flash by frequency of (140 to 230) times per minute.

OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

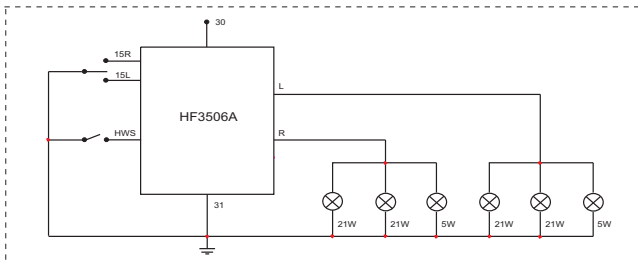
WIRING DIAGRAM

HF3506/12-G-□(XXX)



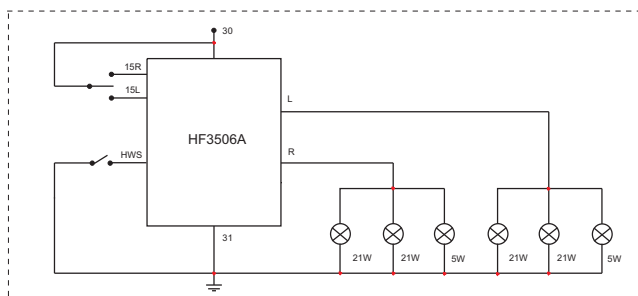
As shown in wiring diagram, the terminal 30 is connected with positive electrode of power supply. The 31 terminal is connected with negative electrode of power supply, the IG terminal is connected with IG power supply, 15R is connected with turn right lamp switch (active high), 15L is connected with turn left lamp switch (active high), HWS terminal is connected with hazard warning switch (active low), R terminal is connected with turn right lamp load, L terminal is connected with turn left lamp load. When load is $2 \times 21W + 5W$ or $4 \times 21W + 2 \times 5W$, the flasher will control lamp to flash by the frequency of (60 to 110) times per minute. When load is $21W + 5W$ (one lamp of 21W is broken down), the flasher will control lamp to flash by frequency of (140 to 230) times per minute.

HF3506A/12-L-□(XXX)



As shown in wiring diagram, the terminal 30 is connected with positive electrode of power supply. The 31 terminal is connected with negative electrode of power supply, 15R is connected with turn right lamp switch (active low), 15L is connected with turn left lamp switch (active low), HWS terminal is connected with hazard warning switch (active low), R terminal is connected with turn right lamp load, L terminal is connected with turn left lamp load. When load is $2 \times 21W + 5W$ or $4 \times 21W + 2 \times 5W$, the flasher will control lamp to flash by the frequency of (60 to 110) times per minute. When load is $21W + 5W$ (one lamp of 21W is broken down), the flasher will control lamp to flash by frequency of (140 to 230) times per minute.

HF3506A/12-G-□(XXX)



As shown in wiring diagram, the terminal 30 is connected with positive electrode of power supply. The 31 terminal is connected with negative electrode of power supply, 15R is connected with turn right lamp switch (active high), 15L is connected with turn left lamp switch (active high), HWS terminal is connected with hazard warning switch (active low), R terminal is connected with turn right lamp load, L terminal is connected with turn left lamp load. When load is $2 \times 21W + 5W$ or $4 \times 21W + 2 \times 5W$, the flasher will control lamp to flash by the frequency of (60 to 110) times per minute. When load is $21W + 5W$ (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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