

HC 3096

HL 3096

HC 3096/100

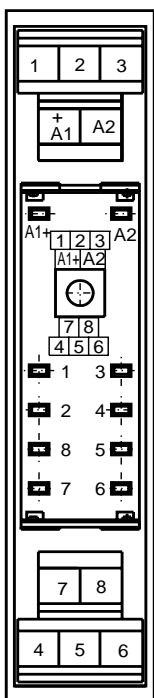
HL 3096/100

## Features

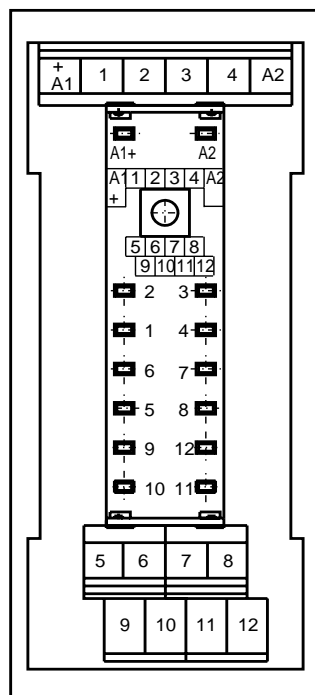
- Positively Guided Contacts
  - Safety Relay soldered on base or plug In
  - Flywheel diode across coil A1/A2 option
  - LED indicator option
  - Contact gap >0.5mm
  - Contact material AgNi10 + 0.2 microns Au  
5 micron Au option
  - Width: HC 3096 - 18mm, HL 3096 - 37.8mm
  - Specifications; IEC 255, approved to build for safety applications to - EN60204, IEC204, SIL CL1
  - Versions (with soldered in relay)
    - HC 3096.52/---, 2/No, 2N/C
    - HC 3096.48/---, 3/No, 1N/C
    - with LED indicator = /400, with flywheel diode = /500
    - with FWD & LED = /900
    - HL 3096.18/--- 3/No, 3N/C
    - HL 3096.50/--- 2/No, 4N/C
    - HL 3096.54/--- 4/No, 2N/C
    - HL 3096.60/--- 6/No, 1N/C
    - with LED indicator = /400, with flywheel diode = /500
    - with FWD & LED = /900
  - Versions (with plug in base and no relay)
    - HC 3096/100, (to fit 4 contact relay OA/HA 5611.--)
    - HL 3096/100, (to fit 6 contact relay OA/HA5612.--)
    - with LED indicator = /103, with flywheel diode = /101
    - with FWD & LED = /102
- NB: HA 5611/12.-- relays are electrically the same as OA 5611/12.-- but with the base legend printed on them.



## Layout



HC 3096/100



HL 3096/100

## Description

Although the Emergency Stop Relays described previously will satisfy the majority of industrial applications, it is recognised that in certain special circumstances a client may wish to construct his own safety circuit. The modules shown on this page are suitable for this purpose. They comply with IEC255 and the respective specifications referred to on page XX.

## Versions

Interface modules complete with soldered in relays;  
 HC 3096.-- includes OA5611.-- relay (Dims. W18 x H88 x D53.6 mm)  
 HL 3096.-- includes OA5612.-- relay (Dims. W37.8 x H88 x D46.3 mm)

Also available with LED indicator and integral flywheel diode (see options above).

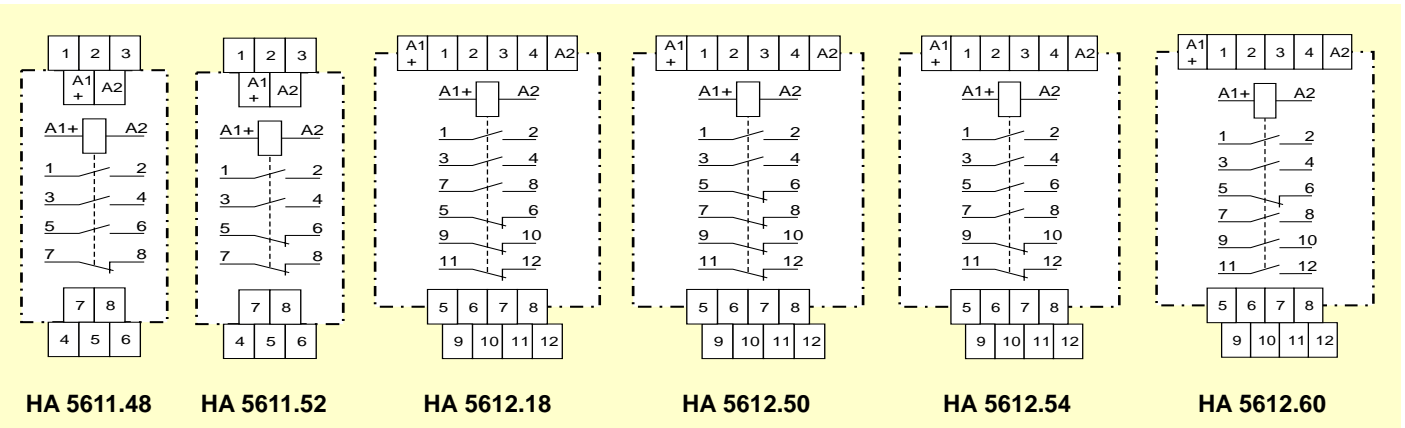
HC/HL 3096/100, Interface module with plug in socket, (OA/HA relay to be ordered as a separate item).

HC 3096/100 (Dims. W18 x H88 x D62.2 mm - with relay fitted)  
 HL 3096/100 (Dims. W37.8 x H88 x D53.3 mm - with relay fitted)

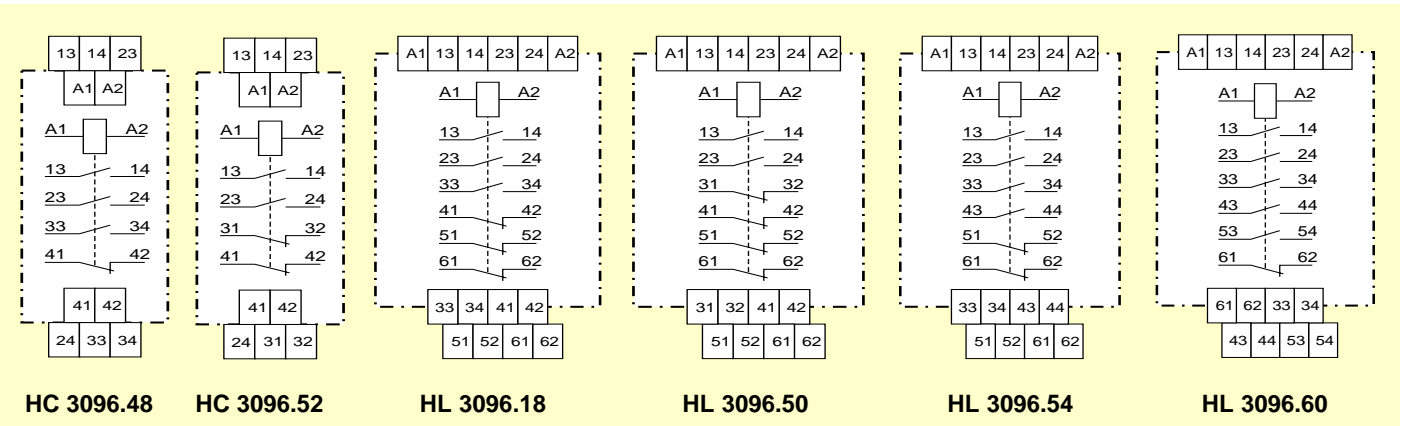
Also available with LED indicator and integral flywheel diode (see options above).

For further information regarding the discrete PCB mounting relays OA/HA 5611 & OA/HA 5612, Please refer to page ???

## Terminal Layout



## Terminal Layout



## Specifications

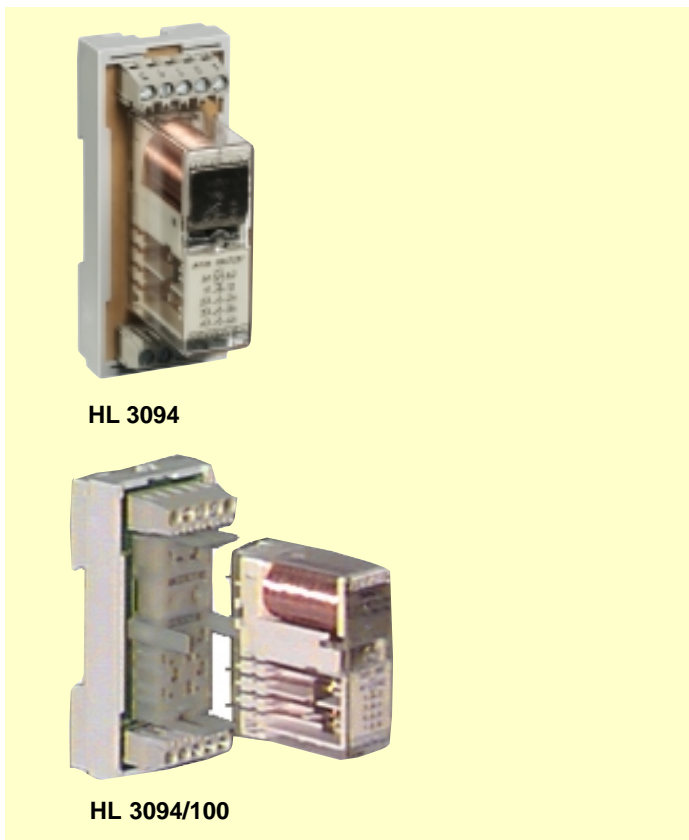
Nominal Voltage (Vn)	6 to 110Vdc
Burden	0.6W (HC 3096), 0.8W (HL3096)
Voltage Tolerance	0.7... 1.4Vn dc
Contacts HC 3096	3 N/O, 1 N/C (.48) 2 N/O, 2 N/C (.52)
HL 3096	3 N/O, 3 N/C (.18) 2 N/O, 4 N/C (.50) 4 N/O, 2 N/C (.54) 6 N/O, 1 N/C (.60)
Max Switching Capacity	8A ac (cos $\phi$ 1 - 0.7)
Continuous Current Rating	N/O Contact, (AC15) 4A, 250Vac N/C Contact, (AC15) 2A, 250Vac N/O Contact, (DC13) 4A, 24Vdc N/C Contact, (DC13) 2A, 24Vdc
Contact Life Mechanical	30 x 10 <sup>6</sup> operations
Contact Life Electrical	see page xx
Min Switching Voltage & Current	10V, 15mA ac/dc
Max Switching Voltage	400V ac, 250V dc
Max Switching Power	2000VA (AC1) 192W dc
Max Switching Frequency	6000 operations/hour
Reaction Times	< 20 ms
Release Time	< 6 ms
Operating Temperature	-40°C...+70°C at 90% RH

## Specifications

Protection Class	Case IP40
Test Voltage	2.5KV 1 minute
Shock Loading	Amplitude 0.35mm Frequency 10 - 55Hz (5g @ 50Hz)
Enclosure Material	Thermoplastic VO Rating UL94
Terminations	
Max	1 x 4mm <sup>2</sup> solid 1 x 2.5mm <sup>2</sup> solid 1 x 2.5mm <sup>2</sup> stranded ferruled
Weights	
HC 3096	61 g
HC 3096/100	33 g
HL 3096	74 g
HL 3096/100	51 g
HA 5611	29 g
HA 5612	32 g

## Information Required With Order

• Model type • Auxiliary supply  
*Example: Interface Module, Type HL 3096.60/900  
Auxiliary Supply 24V dc*



HL 3094

HL 3094/100

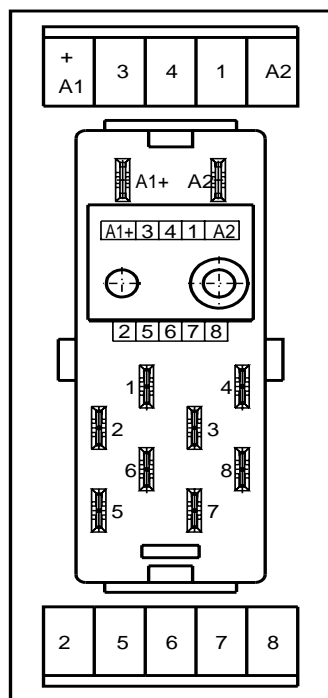
## Features

- Positively Guided Contacts
  - Safety Relay soldered on base or plug In
  - Flywheel diode across coil A1/A2 option
  - LED indicator option
  - Contact gap >0.5mm
  - Contact material AgNi10 + 0.2 microns Au  
5 micron Au option
  - Width: 37.8mm
  - Specifications; IEC 255, approved to build for safety applications to - EN60204, IEC204, SIL CL1
- 
- Versions (with soldered in relay)  
HL 3094.52/---, 2/No, 2N/C  
HL 3096.48/---, 3/No, 1N/C  
with LED indicator = /400, with flywheel diode = /500  
with FWD & LED = /900
  - Versions (with plug in base and no relay)  
HL 3094/100, (to fit 4 contact relay OA/HA 5601.--)  
with LED indicator = /103, with flywheel diode = /101  
with FWD & LED = /102

**NB:** HA 5601.-- relay is electrically the same as OA 5601.-- but with the base legend printed on it.



## Layout



HL 3094/100

## Description

Although the Emergency Stop Relays described previously will satisfy the majority of industrial applications, it is recognised that in certain special circumstances a client may wish to construct his own safety circuit. The modules shown on this page are suitable for this purpose. They comply with IEC255 and the respective specifications referred to on page XX.

## Versions

Interface modules complete with soldered in relays;  
HL 3094.-- includes OA5601.-- relay.

(Dims. W37.8 x H88 x D55.2 mm).

Also available with LED indicator and integral flywheel diode (see options above).

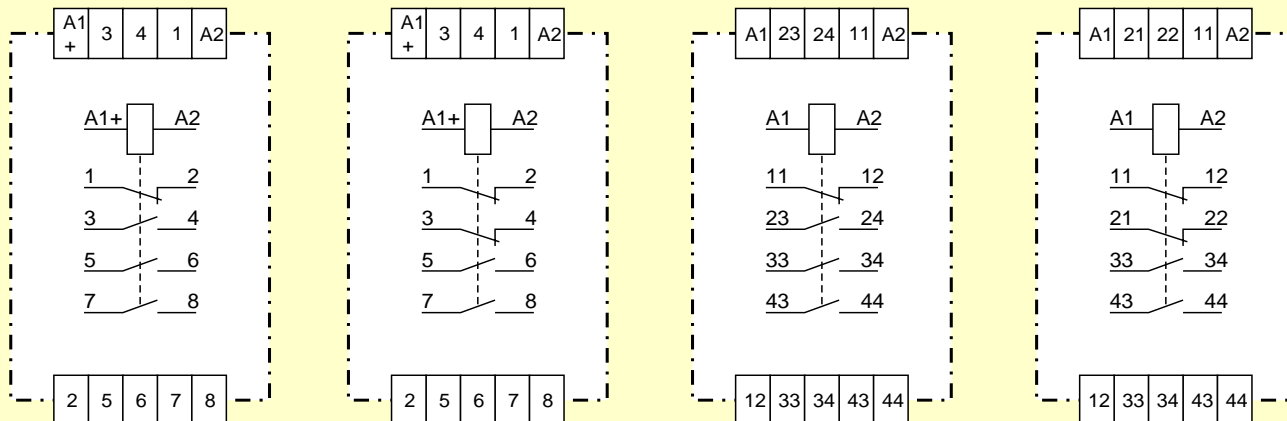
HL 3094/100, Interface module with plug in socket, (OA/HA relay to be ordered as a separate item).

(Dims. W37.8 x H88 x D65.5 mm - with relay fitted).

Also available with LED indicator and integral flywheel diode (see options above).

For further information regarding the discrete PCB mounting relays OA/HA 5601, Please refer to page xx.

## Terminal Layout



HA 5601.48

HA 5601.52

HL 3094.48

HL 3094.52

## Specifications

Nominal Voltage (Vn)	6 to 110Vdc
Burden	0.75W
Voltage Tolerance	0.7... 1.6Vn dc
Contacts HL 3096	3 N/O, 1 N/C (.48) 2 N/O, 2 N/C (.52)
Max Switching Capacity	10A ac (cos $\phi$ 1 - 0.7)
Continuous Current Rating	N/O Contact, (AC15) 5A, 250Vac N/C Contact, (AC15) 2A, 250Vac N/O Contact, (DC13) 10A, 24Vdc N/C Contact, (DC13) 2A, 24Vdc
Contact Life Mechanical	30 x 10 <sup>6</sup> operations
Contact Life Electrical	see page xx
Min Switching Voltage & Current	10V, 15mA ac/dc
Max Switching Voltage	400V ac, 250V dc
Max Switching Power	2500VA (AC1) 200W dc
Max Switching Frequency	6000 operations/hour
Reaction Times	< 27ms
Release Time	< 5 ms
Operating Temperature	-40°C...+70°C at 90% RH

## Specifications

Protection Class	Case IP40
Test Voltage	2.5KV 1 minute
Shock Loading	Amplitude 0.35mm Frequency 10 - 55Hz (5g @ 50Hz)
Enclosure Material	Thermoplastic VO Rating UL94
Terminations	
Max	1 x 4mm <sup>2</sup> solid 1 x 2.5mm <sup>2</sup> solid 1 x 2.5mm <sup>2</sup> stranded ferruled
Weights	
HL 3094	96 g
HC 3094/100	110 g
HA 5601.--	38 g

### Information Required With Order

- Model type • Auxiliary supply

*Example: Interface Module, Type HL 3094.48/900  
Auxiliary Supply 24V dc*