

# Signal Processing

Digital converters (opto coupler transmitters) for signal level shifting, isolating and signal regeneration of HTL or TTL signals

## HEAG 151, 152, 153, 154



HEAG 15x

### Features

- Signal level shifting from HTL → TTL or TTL → HTL
- Isolating signal cables to multiple receivers to avoid earth loops
- Regenerating of signals when transmitting over long distance

### Technical data - electrical ratings

Consumption	≤5 mA
Input signals	K1 90° K2, K0 + inverted
Output signals	K1, K2, K0 + inverted

#### HEAG 151

Voltage supply	5 VDC ±5 %
Maximum load current	25 mA (average) 75 mA (peak)
Inputs	TTL
Input frequency	200 kHz
Outputs	TTL

#### HEAG 152

Voltage supply	5 VDC ±5 %
Maximum load current	25 mA (average) 75 mA (peak)
Inputs	HTL
Input frequency	120 kHz
Outputs	TTL

#### HEAG 153

Voltage supply	9...26 VDC
Maximum load current	60 mA (average) 100 mA (peak)
Inputs	TTL
Input frequency	200 kHz
Outputs	HTL

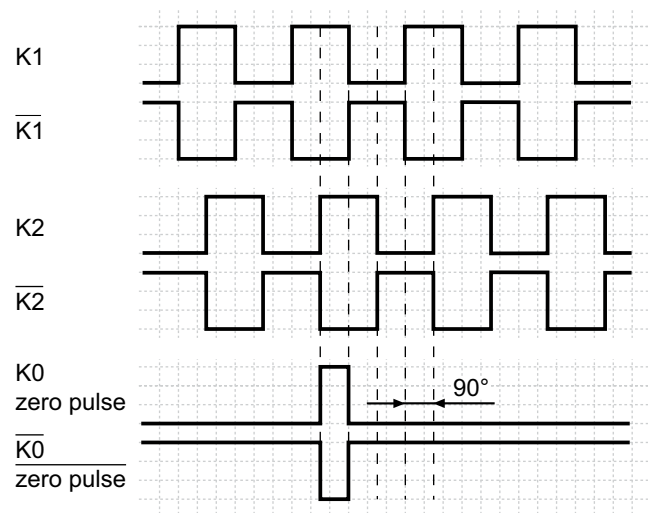
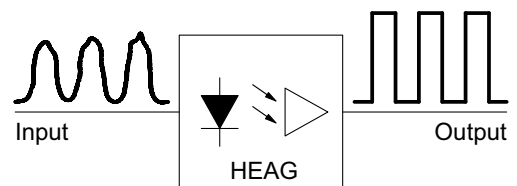
#### HEAG 154

Voltage supply	9...26 VDC
Maximum load current	60 mA (average) 100 mA (peak)
Inputs	HTL
Input frequency	120 kHz
Outputs	HTL

### Technical data - mechanical design

Dimensions W x H x L	50 x 75 x 55 mm
Protection DIN EN 60529	IP 20
Operating temperature	-20...+50 °C
Mounting	DIN rail housing EN 50022
Connection	Screw terminal connector

### Output signals



# Signal Processing

Digital converters (opto coupler transmitters) for signal level shifting, isolating and signal regeneration of HTL or TTL signals

HEAG 151, 152, 153, 154

## Part number

HEAG15 **1**

Input/Output  
1 Input: TTL, Output: TTL

HEAG15 **2**

Input/Output  
2 Input: HTL, Output: TTL

HEAG15 **3**

Input/Output  
3 Input: TTL, Output: HTL

HEAG15 **4**

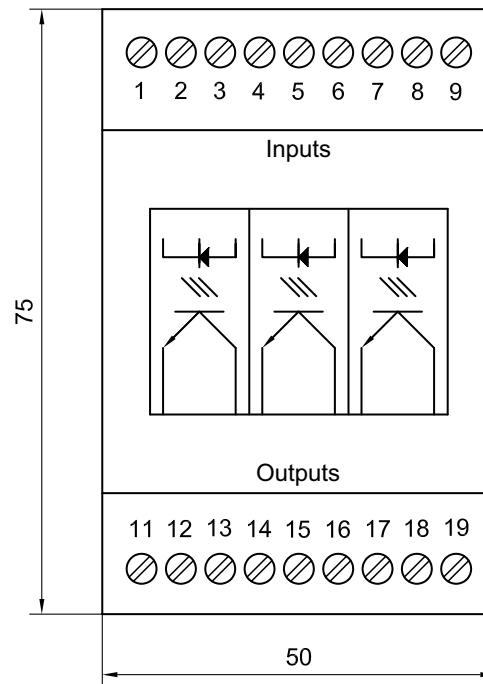
Input/Output  
4 Input: HTL, Output: HTL

## Terminal assignment

Terminal	Assignment
1*	n.c.
2	n.c.
3	Input K1
4	Input $\overline{K1}$
5	Input K2
6	Input $\overline{K2}$
7	Input K0
8	Input $\overline{K0}$
9	n.c.
11	+UB (HEAG)
12*	0 V
13	Output K1
14	Output $\overline{K1}$
15	Output K2
16	Output $\overline{K2}$
17	Output K0
18	Output $\overline{K0}$
19	n.c.

\* no connection between 1 and 12

## Dimensions



Height = 55