

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

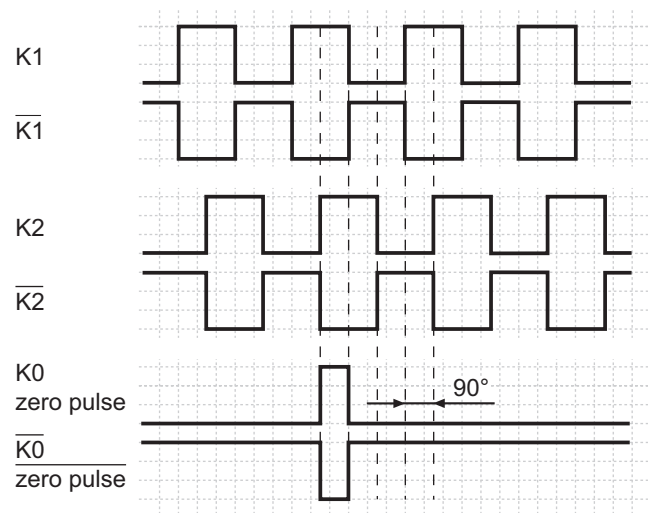
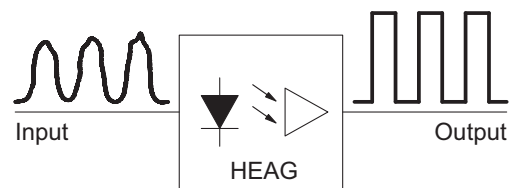
HEAG 154

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



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Part number

HEAG 15 **1**

Input/Output
1 Input: TTL, Output: TTL

HEAG 15 **2**

Input/Output
2 Input: HTL, Output: TTL

HEAG 15 **3**

Input/Output
3 Input: TTL, Output: HTL

HEAG 15 **4**

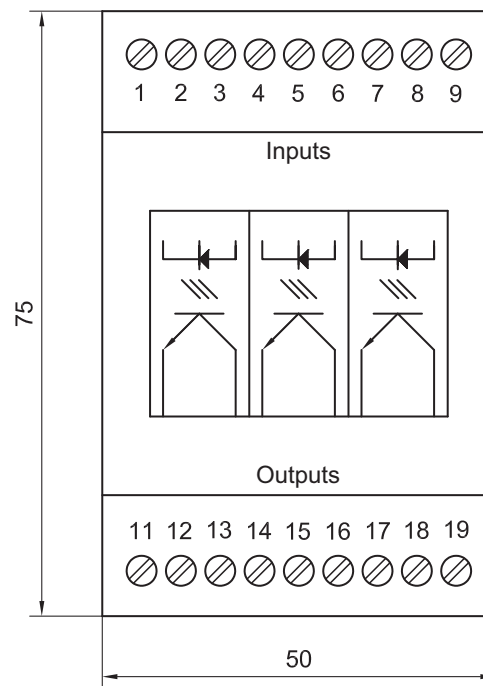
Input/Output
4 Input: HTL, Output: HTL

Terminal assignment

Terminal	Assignment
1*	Ground inputs
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	Supply voltage +UB
12*	Ground outputs
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