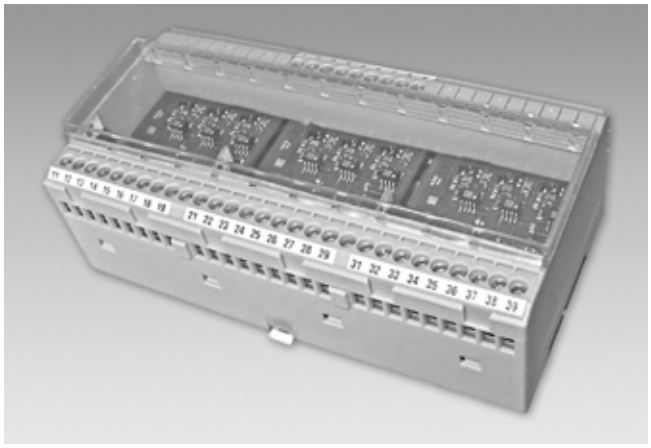
Signal Processing

Signal splitter and digital converter (opto coupler transmitter) for signal level shifting, isolating and signal regeneration of HTL or TTL signals

HEAG 150



HEAG 150

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**
- **1 input unit and 3 output units**

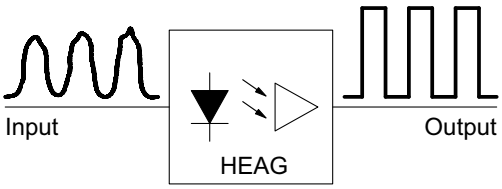
Technical data - electrical ratings

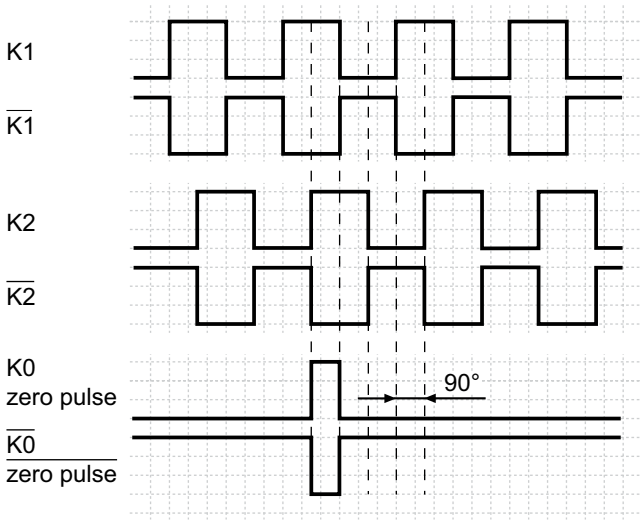
Voltage supply	Output unit HTL: 9...26 VDC Output unit TTL: 5 VDC ±5 % Output unit TTL (R): 9...26 VDC
Input current	15 mA
Inputs	HTL, TTL
Input signals	K1, K2, K0 + inverted
Input frequency	≤120 kHz (≤200 kHz if output unit 1,2,3 = TTL)
Outputs	HTL TTL TTL (R)
Load current (outputs)	HTL: 60 mA (average), 100 mA (peak) TTL: 25 mA (average), 75 mA (peak) TTL (R): 25 mA (average), 75 mA (peak)
Output signals	K1, K2, K0 + inverted
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approval	CE

Technical data - mechanical design

Dimensions (W x H x D)	150 x 75 x 55 mm
Protection DIN EN 60529	IP 20
Operating temperature	-20...+50 °C
Mounting type	DIN rail housing EN 50022
Connection	Screw terminal connector

Output signals





HEAG 150

Part number

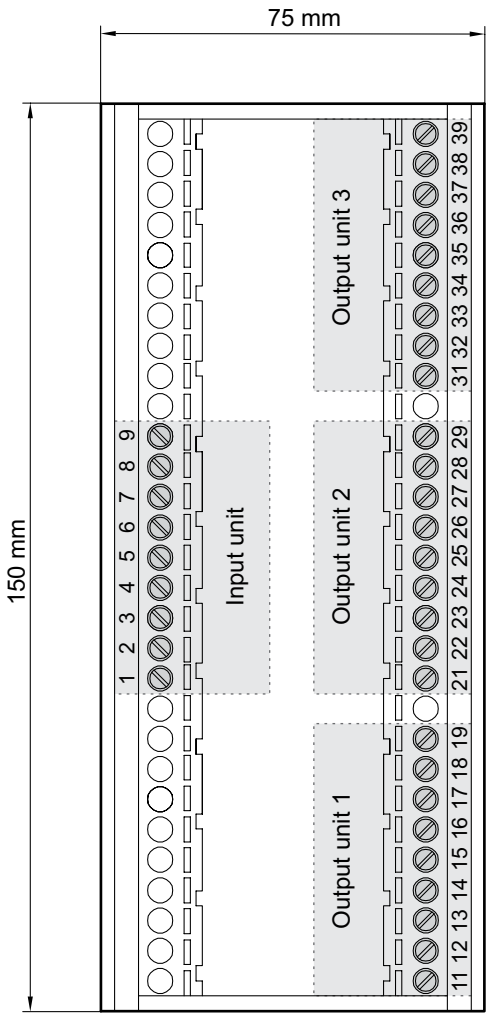
HEAG150- | | **-1** | | **-2** | | **-3** | |

- Input
  - H HTL
  - T TTL
- Output 1
  - H HTL
  - T TTL
  - R TTL (R)
- Output 2
  - H HTL
  - T TTL
  - R TTL (R)
- Output 3
  - H HTL
  - T TTL
  - R TTL (R)

Terminal assignment

Input unit (HTL or TTL)	
Terminal	Assignment
1	n.c.
2	n.c.
3	K1
4	$\overline{K1}$ * (K1 inverted)
5	K2
6	$\overline{K2}$ * (K2 inverted)
7	K0 (zero pulse)
8	$\overline{K0}$ * (zero pulse inverted)
9	n.c.
Output unit 1, 2, 3 (HTL, TTL or TTL (R))	
Terminal(s)	Assignment
11, 21, 31	+UB (voltage supply)
12, 22, 32	⊥ (ground)
13, 23, 33	K1
14, 24, 34	$\overline{K1}$ (K1 inverted)
15, 25, 35	K2
16, 26, 36	$\overline{K2}$ (K2 inverted)
17, 27, 37	K0 (zero pulse)
18, 28, 38	$\overline{K0}$ (zero pulse inverted)
19, 29, 39	n.c.

Dimensions



* The converter with HTL input can be used without inverted signals. In this case it is necessary to connect the inputs $\overline{K1}$, $\overline{K2}$, $\overline{K0}$ to ground. We recommend to use the inverted signals if available. The outputs $\overline{K1}$, $\overline{K2}$, $\overline{K0}$ must not be connected to ground.