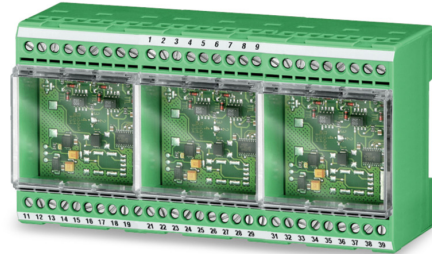


## HEAG 150

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

### Overview

- 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

#### 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)

#### Technical data - electrical ratings

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

### Terminal assignment

#### Input unit (HTL or TTL)

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

Terminal	Assignment
1	dnu
2	dnu
3	K1
4	$\overline{K1}$ *
5	K2
6	$\overline{K2}$ *
7	K0
8	$\overline{K0}$ *
9	dnu

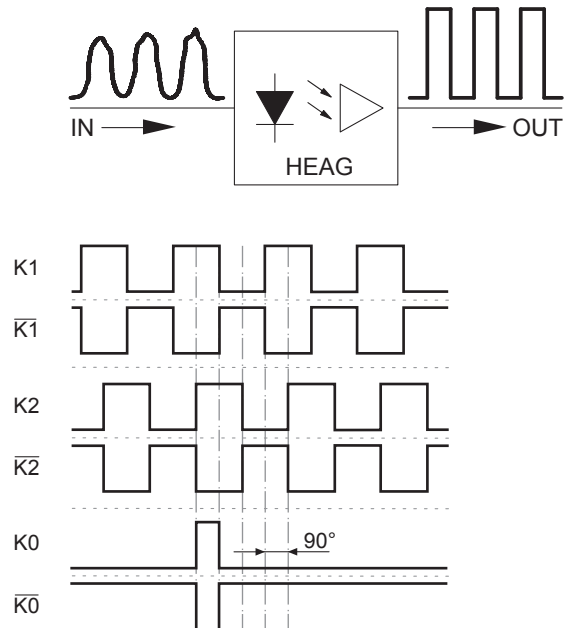
#### Output unit 1, 2, 3 (HTL, TTL or TTL (R))

Terminal(s)	Assignment
11, 21, 31	+UB
12, 22, 32	0V ( $\perp$ )
13, 23, 33	K1
14, 24, 34	$\overline{K1}$
15, 25, 35	K2
16, 26, 36	$\overline{K2}$
17, 27, 37	K0
18, 28, 38	$\overline{K0}$
19, 29, 39	dnu

### Terminal significance

+UB	Voltage supply
0V ( $\perp$ )	Ground
K1	Output signal channel 1
$\overline{K1}$	Output signal channel 1 inverted
K2	Output signal channel 2 (offset by 90° to channel 1)
$\overline{K2}$	Output signal channel 2 inverted
K0	Zero pulse (reference signal)
$\overline{K0}$	Zero pulse inverted
dnu	Do not use

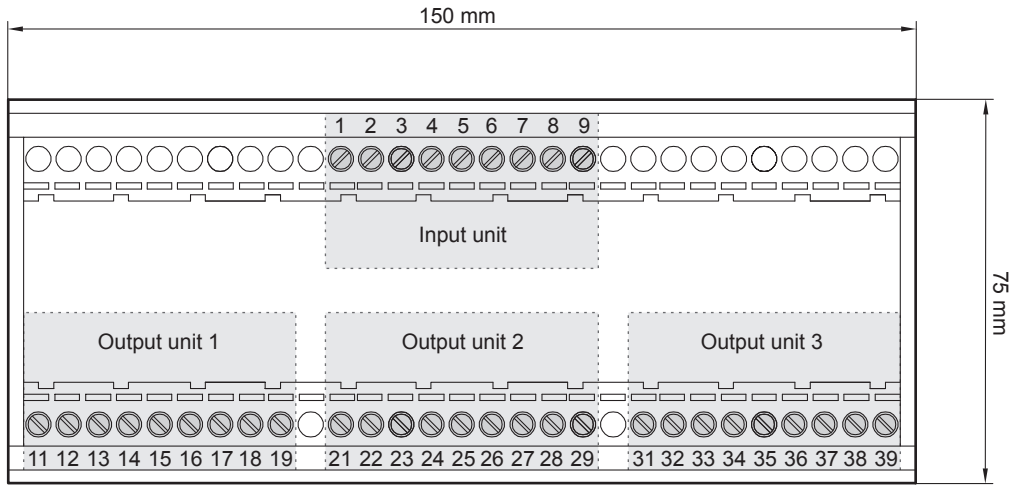
### Output signals



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## Dimensions



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## Ordering reference

		HEAG150	-	#	-	##	-	##	-	##
<b>Product</b>	Signal Processing	HEAG150								
<b>Input</b>										
	HTL					H				
	TTL					T				
<b>Output 1</b>										
	HTL							1H		
	TTL							1T		
	TTL (R)							1R		
<b>Output 2</b>										
	HTL								2H	
	TTL								2T	
	TTL (R)								2R	
<b>Output 3</b>										
	HTL									3H
	TTL									3T
	TTL (R)									3R