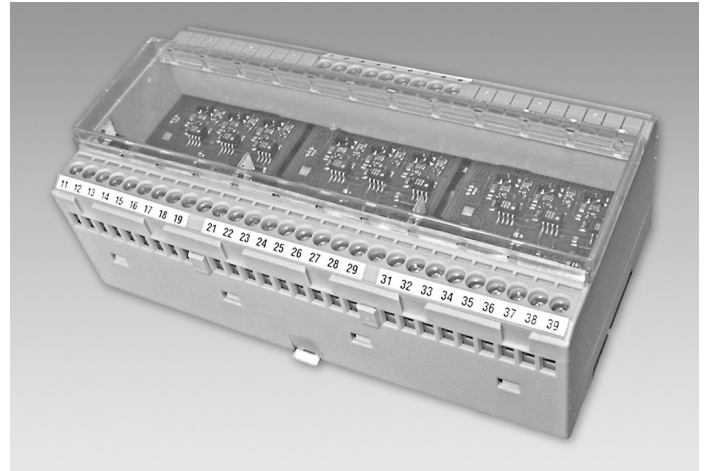


HEAG 150

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 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

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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

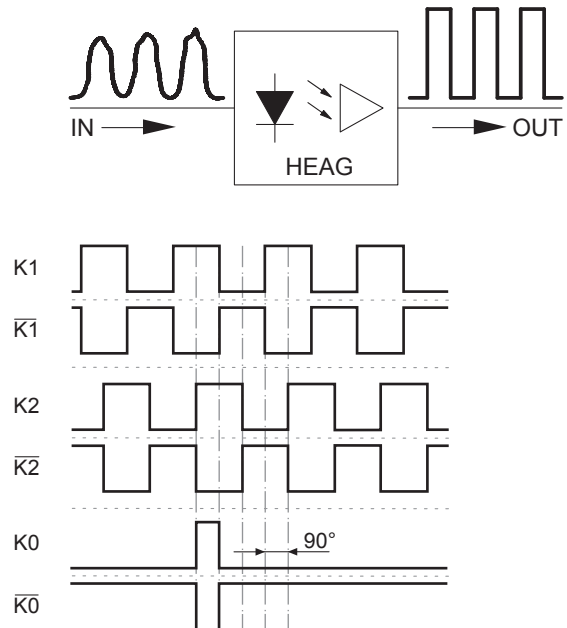
Output unit 1, 2, 3 (HTL, TTL or TTL (R))

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

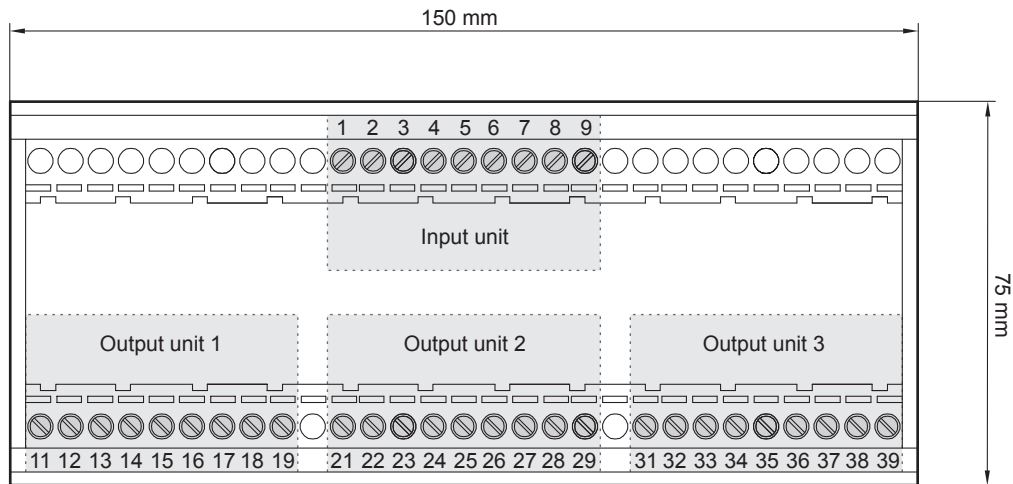
Output signals



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Signal splitter and digital converter (opto coupler transmitter) for signal level shifting
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Dimensions



HEAG 150

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

Ordering reference

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