



**Model Number**

**IVI-KHD2-4HD1**

System IV control interface  
With digital interface (16 inputs/outputs)

**Features**

- 4 read/write heads connectable
- 16 inputs/outputs
- Programming or reading of 16 bits in data carriers
- Control inputs and error output
- LEDs as function indicators

**Function**

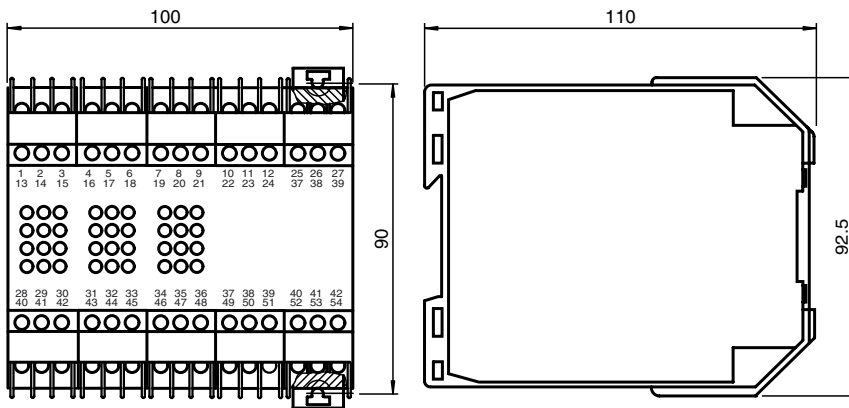
With this control interface unit, 16-bit bit patterns can be programmed or read in the data carrier. In addition, the device is equipped with 16 inputs/outputs for this bit pattern as well as various control lines.

Up to 4 read heads can be connected to the control interface unit. The programming and read procedures are controlled via the various control inputs. Error conditions are indicated by the error output.

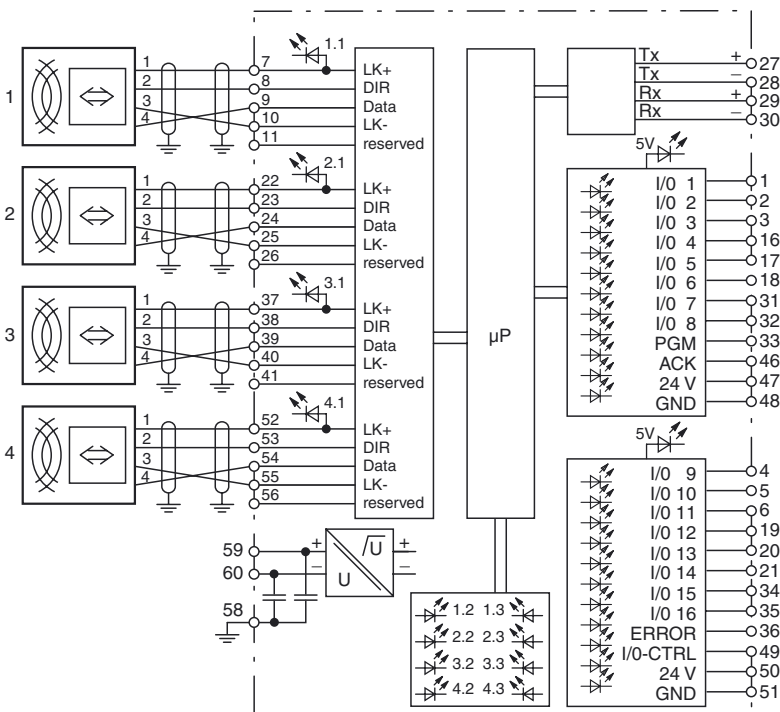
During programming, the inputs and outputs are switched as inputs onto which the bit pattern which is to be programmed is applied. The programming procedure is started via the programming input. The data carrier must be located in front of one of the connected read/write heads. No distinction is made between the heads, i.e. make certain that only one data carrier is located in front of a head.

While reading, the inputs/outputs are switched as outputs. If a data carrier is placed in front of a head, the data carrier is read and the 16 bits of the bit pattern are switched to the outputs.

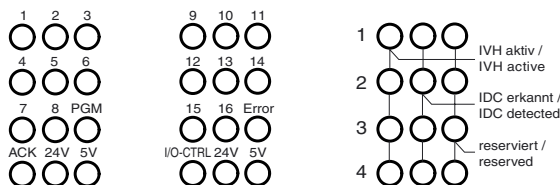
**Dimensions**



**Electrical connection**



**Indicating / Operating means**



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**Technical data****General specifications**

Number of read/write heads	max. 4
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**Indicators/operating means**

LED green	mains supply 24 V (2 unit) supply of the inputs and outputs 5 V (2 units) read head active (4 units, 1 per head)
LED yellow	read/write head operation successful (4 units, 1 per head) inputs/outputs(16 units, 1 per input/output) direction control input (1 unit) I/O CTRL programming input (1 unit) PGM acknowledgement input ACK
LED red	error (4 LEDs, 1 per head)

**Electrical specifications**

Rated operating voltage	$U_e$	18 ... 32 V DC ripple $\leq 10\%$ (terminals 59 and 60, 47 and 48, 50 and 51)
No-load supply current	$I_0$	70 mA , with active read head 150 mA (outputs activated)
Current consumption		max. 200 mA load currents at the outputs flow via terminals 47/48 and 50/51
Power consumption	$P_0$	5 W

**Inputs/Outputs**

Output rated operating current	$I_e$	150 mA per data output (average), max. 600 mA per group of 4 outputs; groups 1/2/3/16; 17/18/31/32; 4/5/6/19; 20/21/34/35 $\leq 20$ mA per control output
Data lines		16 binary inputs/outputs (I/O)
Input level		logic 1: 13 ... 30 V; logic 0: 0 ... 7 V
Output level		logic 1: $U_e - 1$ V; logic 0: ; switched high (at OFF, the output potential is undetermined; short-circuit proof, disconnection of all outputs on overload)
Control lines		1 direction control input (I/O CNTL), 1 programming input (PGM), 1 acknowledgment input (ACK), 1 error output (ERROR)

**Ambient conditions**

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)
Climatic conditions	air humidity max. 75 %

**Mechanical specifications**

Degree of protection	IP20 according to EN 60529
Connection	self-opening connection terminals, max. core cross-section 2 x 2.5 mm <sup>2</sup>
Material	
Housing	Makrolon 6485
Construction type	K-system, 100 mm (5 TE)