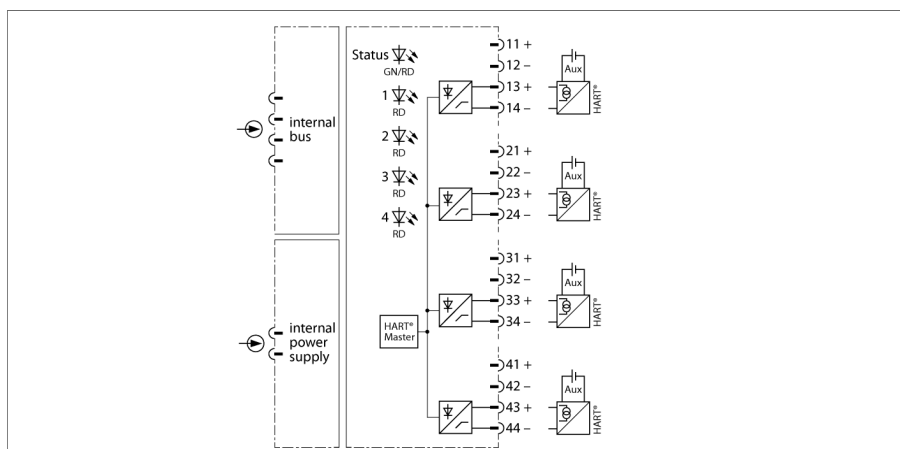




The input module AIH41-N is used for the connection of 4-wire transducers (passive input = sink mode / transducer active).

The inputs are not galvanically isolated from each other. When connecting the field devices, care has to be taken that all outputs are on the same potential.

HART® compatible sensors connected to the module communicate with the HART® controller.

The resolution is 14 bit, i.e. the analog value between 0...21 mA is represented as a number between 0 and 16383. For clear reading, the digitized value is displayed in a range of 0...21000 and transmitted to the host system.

Up to 8 HART® variables (max. 4 per channel) can be read via the cyclical PROFIBUS data traffic. The bidirectional exchange of variables between the host system and the HART® transmitter is implemented via PROFIBUS-DPV1.

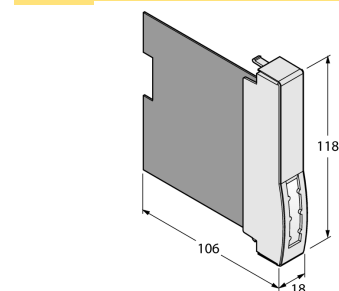
Parameters like wire-break or short-circuit monitoring, measuring range, HART® communication etc., can be adjusted for each channel separately and are solely initialized by the PROFIBUS master.

- **Input module for connection of 4-wire transmitters**
- **Transmission of HART® data**



Input Module, Analog, Passive, HART®, 4-channel AIH41-N

Dimensions



Type designation	AIH41-N
Ident-No.	6884220
Supply voltage	via the backplanes, central power supply
Power consumption	≤ 1.5 W
Galvanic isolation	to int. bus and supply circuit
Number of channels	4-channel
Input circuits	0/4...20 mA
HART® Impedance	> 240 Ω
Overload capability	> 22 mA
Low level control	< 3.6 mA
Short-circuit	< 5 V (only in live zero mode)
Wire-break	< 2 mA (only in live zero mode)
Resolution	14 Bit
Linearity deviation	≤ 0.1 % full scale
Temperature drift	≤ 0.005 % of full scale/K
Rise time/fall time	≤ 50 ms (10...90 %)
Max. measurement tolerance under EMC influence	≤ 0.1 % with shielded signal cable ≤ 1 % with unshielded signal cable
Indication	
Operational readiness	1 x green / red
State/ Fault	4 x red
Housing material	Plastic
Connection mode	module, plugged on rack
Protection class	IP20
Ambient temperature	-20...+60 °C
Relative humidity	≤ 93 % at 40 °C acc. to EN 60068-2-78: test cab
Vibration test	acc. to IEC 60068-2-6
Shock test	acc. to IEC 60068-2-27
EMC	acc. EN 61326-1 (2013) acc. to Namur NE21 (2012)
MTTF	93 years acc. to SN 29500 (Ed. 99) 40 °C
Dimensions	18 x 118 x 106 mm