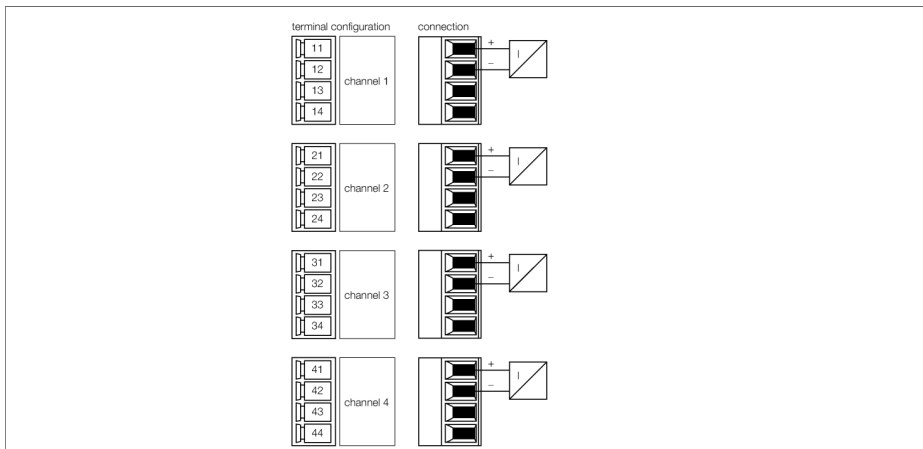




The input module AIH40-NEx is used for the connection of 2-wire transducers (active input = source mode / transducer passive).

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

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

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

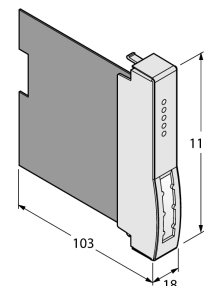
Up to 8 HART® variables (max. 4 per channel) can be read via the cyclical PROFIBUS data traffic. The bidirectional exchange of variables between the host system and the HART® transmitter is implemented via PROFIBUS-DPV1.

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 2-wire transmitters
- Transmission of HART® data



Dimensions



Type code	AIH40-N	
Ident no.	6884219	
Supply voltage	via the backplanes, central power supply	
Power consumption	≤ 3 W	
Galvanic separation	to int. bus and supply circuit	
Number of channels	4-channel	
Input circuits	0/4...20 mA	
Supply voltage	15 VDC at 22 mA	
HART® Impedance	> 240 Ω	
Overload capability	> 22 mA	
Low level control	< 3.6 mA	
Short circuit	< 5 V (only with live zero)	
Wire-break	< 2 mA (only with live zero)	
Resolution	14 Bit	
max. Messabweichung	≤ max. Messabweichung %	max. Messabweichung
	0.1	bei geschirmtem Signalkabel
	1	bei ungeschirmtem Signalkabel
Linearitätsabweichung	≤ 0.1% of full scale vom Endwert	
Temperature drift	≤ 0.005 % / K	
Rise time/fall time	≤ 50 ms (10 ... 90 %)	
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	≤ 95% at 55 °C acc. to EN 60068-2	
Vibration test	acc. to IEC 60068-2-6	
Shock test	acc. to IEC 60068-2-27	
EMC	acc. to EN 61326-1 (2006)	
	acc. to Namur NE21 (2007)	
MTTF	61 years acc. to SN 29500 (Ed. 99) 40 °C	
Dimensions	18x 118x 103 mm	
Weight	85 g	