



HART-compatible sensors can be connected to the module; these will communicate with the HART controller.

Setting the parameters, such as wire-break/short-circuit monitoring, measuring range, HART communication, etc., can be carried out channel-by-channel and is initiated exclusively by the PROFIBUS master.

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

## Dimensions

Type	AIH41EX
ID	6884005
Supply voltage	Via module rack, central power supply module
Power consumption	≤ 1.5 W
Galvanic isolation	to int. bus and supply circuit
Number of channels	4
Input circuits	Intrinsically safe acc. to EN 60079-11 0/4...20 mA
HART impedance	> 240 Ω
Overload capability	> 21 mA
Low level control	< 3.6 mA
Short-circuit	< 5 V (only with "live zero")
Wire-break	< 2 mA (only in live zero mode)
Reference temperature	25 °C
Resolution	1 µA / digit
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
Ex approval acc. to conformity certificate	IECEX PTB 12.0018X
Ex approval acc. to conformity certificate	PTB 00 ATEX 2059 X
Device designation	Ex II 2 (1) G Ex ib [ia Ga] IIC T4 Gb
Device marking	Ex II (1) D [Ex ia IIIC Da]
Displays/Operating elements	
Operational readiness	1 × green/red
State/ Fault	4 × 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 IEC 60068-2-78
Vibration test	Acc. to IEC 60068-2-6
Shock test	Acc. to IEC 60068-2-27
EMC	Acc. to EN 61326-1 Acc. to Namur NE21
MTTF	93 years acc. to SN 29500 (Ed. 99) 40 °C
Dimensions	18 x 118 x 106 mm
Approvals	ATEX cFMus cFM IECEX INMETRO KOSHA EAC Ex DNV GL BV LR KR CMI KCC CE

