

**Features**

- 1- or 2-channel isolated barrier
- 24 V AC/DC supply voltage
- Input 0/4 mA ... 20 mA
- Output 0/4 mA ... 20 mA
- Current output up to 750 Ω load
- Short-circuit proof outputs
- HART communication

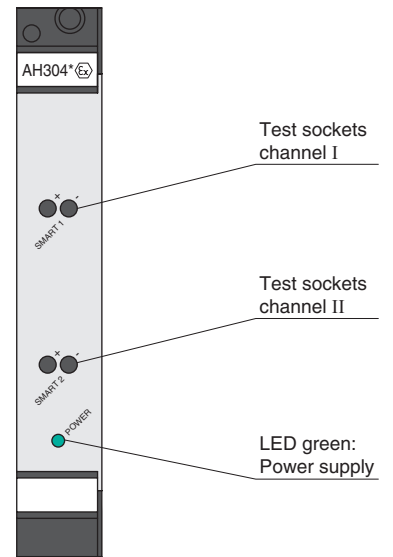
**Function**

This isolated barrier is used for intrinsic safety applications. It drives a 0/4 mA ... 20 mA signal from the safe area to I/P converters, electrical valves, and positioners located in the hazardous area.

The voltage drop at the current input is lower than 5 V.  
1- or 2-channel versions are available.

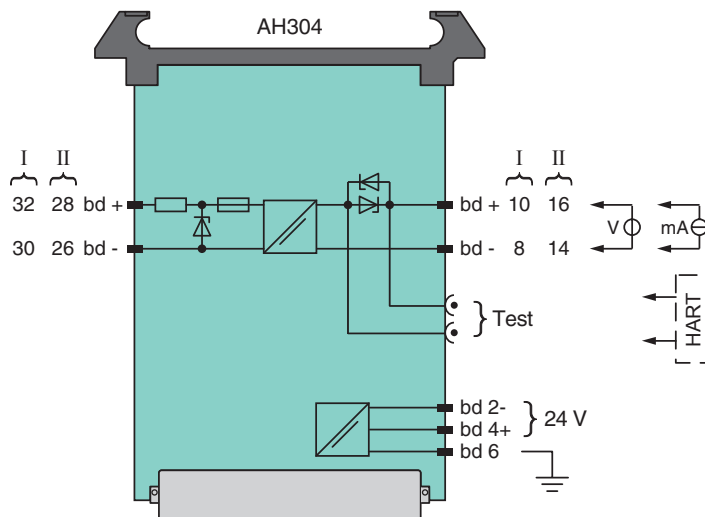
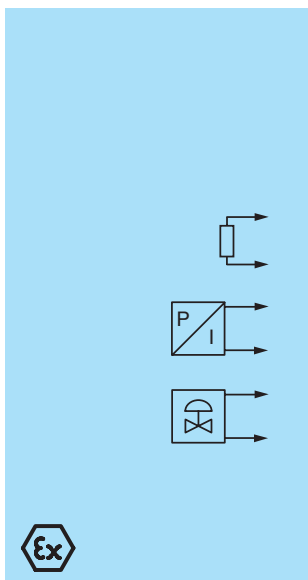
**Assembly**

Front view



**SIL2**

**Connection**



Release date 2017-08-24 14:49 Date of issue 2017-08-24 t42567\_eng.xml


Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0002  
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222  
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
pa-info@sg.pepperl-fuchs.com

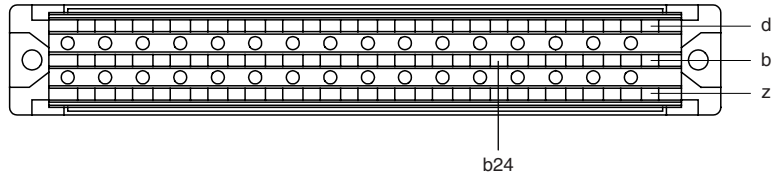
<b>General specifications</b>		
Signal type		Analog output
<b>Supply</b>		
Connection		bd2-, bd4+, bd6 (PE)
Rated voltage	$U_r$	20 ... 30 V DC 20 ... 26.4 V AC
Power consumption		DC: < 1.4 W (1-channel version), < 2.6 W (2-channel version) AC: < 2.2 VA/channel
<b>Input</b>		
Connection		input I: bd10+, bd8- input II: bd16+, bd14-
Input resistance		dynamic 250 $\Omega$ , static $\leq$ 50 $\Omega$
<b>Output</b>		
Connection		output I: bd32+, bd30- output II: bd28+, bd26-
Current		0/4 ... 20 mA
Load		$\leq$ 750 $\Omega$ at 24 mA
Response time		22 ms (10 ... 90%)
<b>Transfer characteristics</b>		
Influence of temperature		< $\pm$ 0.01%/10 K
Influence of supply voltage		< $\pm$ 0.05 % of full scale for a rated voltage change from 20 V to 30 V
Influence of load		< $\pm$ 0.05 % of full scale for 100 % load resistance change
Linearity		< $\pm$ 0.1 %
<b>Galvanic isolation</b>		
Input/Output		1.5 kV (test voltage)
Input/power supply		500 V (test voltage)
Input/input		500 V (test voltage)
<b>Indicators/settings</b>		
Display elements		LED green: Power on
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2004/108/EC		The device has been used for the same applications for several years. It therefore features an appropriate electromagnetic field immunity. The device must not be used in new plants.
<b>Conformity</b>		
Degree of protection		IEC 60529
<b>Ambient conditions</b>		
Ambient temperature		-20 ... 60 $^{\circ}$ C (-4 ... 140 $^{\circ}$ F)
Storage temperature		-40 ... 80 $^{\circ}$ C (-40 ... 176 $^{\circ}$ F)
Relative humidity		< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation
<b>Mechanical specifications</b>		
Degree of protection		IP20 (installed in 19" rack)
Connection		plug connector acc. to DIN 41612, 32-pin, type F, rows b and d provided, b and d internal connected
Mass		approx. 200 g
Dimensions		22 x 143 x 193 mm (0.9 x 5.6 x 7.6 inch)
Construction type		Eurocard 100 x 160 mm (3.9 x 6.3 inch) acc. to DIN 41494, front panel 4TE, mountable in 19 inch rack
Coding		b24 (see "Notes")
<b>Data for application in connection with hazardous areas</b>		
EU-Type Examination Certificate		TÜV 98 ATEX 1278 X , for additional certificates see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a>
Marking		 Ex II (1) GD [EEx ia] IIC
Voltage	$U_o$	27.3 V
Current	$I_o$	93 mA
Power	$P_o$	635 mW (linear characteristic)
<b>Supply</b>		
Maximum safe voltage	$U_m$	253 V AC
<b>Galvanic isolation</b>		
Output/Other circuits		safe galvanic isolation acc. to EN 50020, voltage peak value 375 V
<b>Directive conformity</b>		
Directive 94/9/EC		EN 50014:1997, EN 50020:1994
<b>General information</b>		
Supplementary information		EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

Release date 2017-08-24 14:49 Date of issue 2017-08-24 t42567\_eng.xml

**Ordering information**

Type	Output/Input	Channels	Ex protection	model number
AH304	0/4 ... 20 mA	1	ia/ib	GHG 125 2311 L 1406
AH304	0/4 ... 20 mA	2	ia/ib	GHG 125 2321 L 1406

**Notes**



Release date 2017-08-24 14:49 Date of issue 2017-08-24 t42567\_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0002  
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222  
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
pa-info@sg.pepperl-fuchs.com