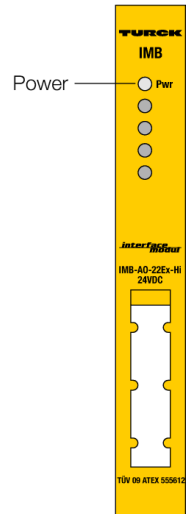
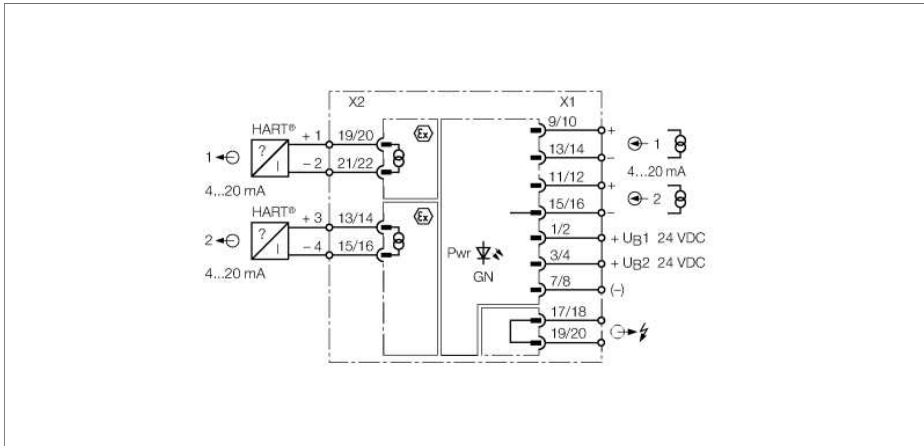


**Analog signal isolator
2-channel
IMB-AO-22Ex-Hi/24VDC**



The 2-channel HART[®] output isolator IMB-AO-22Ex-Hi/24VDC is designed to galvanically separate and transfer standard current signals from the non-Ex to the Ex-area without attenuation (1:1).

In addition to analog signals, the isolating transducer also transfers digital HART[®] communication signals bidirectionally.

Typical applications are for example, the control of I/P converters (at control valves for example) or indicators in the Ex-area.

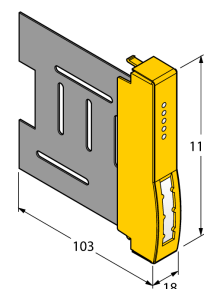
The module features input circuit monitoring. In the event of wire-break or short-circuit in the field circuit, the input current drops to < 1.2 mA.

The module features a passive alarm. The alarm message is cleared as soon as all slots are assigned. The green LED indicates operational readiness.

- Analog signal isolator for transfer of intrinsically safe output signals
- Intrinsically safe output circuits Ex ia
- Application area acc. to ATEX: II (1) G, II (1) D
- SIL3
- Output isolator for analog signals, 2-channel
- Galvanic separation of input and output circuits
- Galvanic separation of the channels on the Ex side
- HART[®] transmissible

Analog signal isolator 2-channel IMB-AO-22Ex-Hi/24VDC

Dimensions



Type code	IMB-AO-22Ex-Hi/24VDC				
Ident no.	7570005				
Nominal voltage	24 VDC				
Operating voltage range	20...30 VDC				
Power consumption	≤ 2.2 W				
Power loss, typical	≤ 1.4 W				
Current input	4...20 mA				
Control circuits	Current limiting 42 mA				
Output circuits					
Output current	4...20 mA				
Load resistance current output	≤ 0.7 kΩ				
Minimum load	≥ 40 Ω				
Rise time (10-90%)	≤ 10 ms				
Dropout time (90...10%)	≤ 10 ms				
Measuring accuracy	≤ 0.1 % of full scale				
Reference temperature	23 °C				
Temperature drift	≤ 0.002 % / K				
Galvanic separation					
Test voltage	2.5 kV				
Ex approval acc. to conformity certificate	TÜV 09 ATEX 555612				
Application area	II (1) G, II (1) D				
Protection type	[Ex ia Ga] IIC; [Ex ia Da] IIIC				
Max.output voltage U _o	≤ 25 V				
Max. output current I _o	≤ 49 mA				
Max. output power P _o	≤ 760 mW				
Rated voltage	250 V				
Characteristic	angular				
Internal inductance/capacitance L/C _i	negligibly small				
External inductance/capacitance L _e /C _e					
	Ex ia	IIC		IIB	
	Lo [mH]	0.5	0.2	21	0.2
	Co [µF]	0.087	0.11	0.36	0.67
Approval	SIL 3				
MTTF	100 years acc. to SN 29500 (Ed. 99) 40 °C				
Indication					
Operational readiness	green				
Protection class	IP20				
Ambient temperature	-25...+70 °C				
Storage temperature	-40...+80°C				
Dimensions	118x 18x 103 mm				
Weight	183 g				
Mounting instruction	Mounting and operation only in conjunction with the IMB backplane				
Housing material	Polycarbonate/ABS				