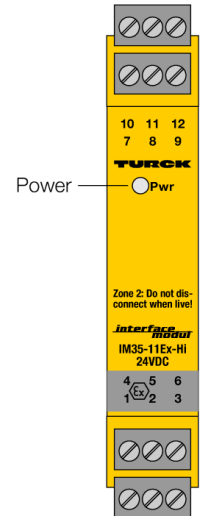
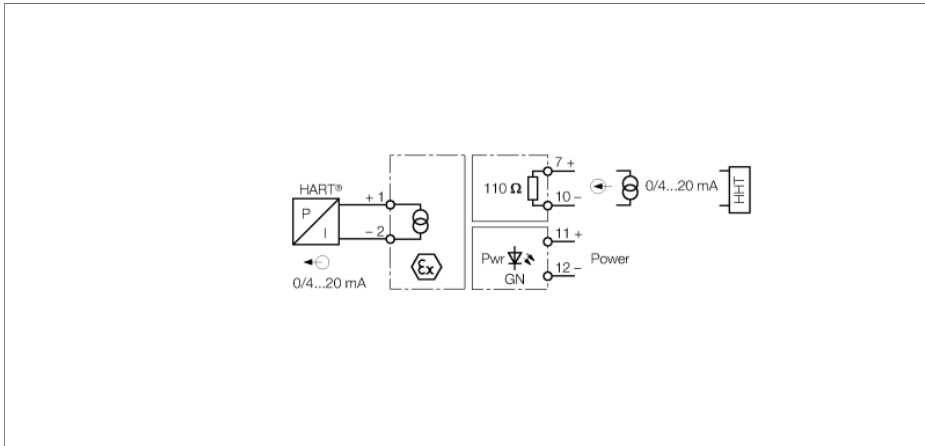


**Analog signal isolator  
1-channel  
IM35-11EX-HI/24VDC**



The standard current signal is galvanically separated and transferred via the 1-channel isolating transducer IM35-11EX-HI/24VDC from the non-Ex area to the Ex-area without attenuation (1:1). In addition to analog signals, the isolating transducer also transfers digital HART<sup>®</sup> 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.

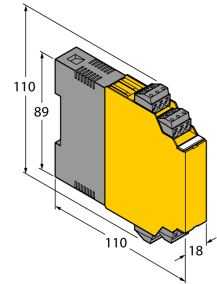
The actuators are connected to the output terminals 1/2. Handheld Terminals [HHT] can be connected to the output and input terminals 7/10.

In addition, the removable terminal blocks are equipped with 2 mm test sockets for signal control.

- Intrinsically safe output circuits Ex ia
- Application area acc. to ATEX: II (1) G, II (1) D; II 3 G
- Installation in zone 2
- Power supply of intelligent actuators via HART<sup>®</sup> communication
- Input circuit: 0/4...20 mA
- Output circuit: 0/4...20 mA, intrinsically-safe
- SIL2
- Removable terminal blocks, screwable, 2 mm test socket
- Galvanic separation of input circuits, output circuits and power supply

**Analog signal isolator  
1-channel  
IM35-11EX-HI/24VDC**

**Dimensions**



<b>Type code</b>	IM35-11EX-HI/24VDC															
Ident no.	7506516															
<b>Nominal voltage</b>	24 VDC															
Operating voltage range	19...29 VDC															
Power consumption	≤ 2.2 W															
<b>Current input</b>	0/4...20 mA															
Input resistance (current)	110 Ω															
<b>Output circuits</b>																
Output current	0/4...20 mA															
Load resistance current output	≤ 0.6 kΩ															
<b>Limit frequency</b>	≤ 10 Hz															
Rise time (10-90%)	≤ 90 ms															
Dropout time (90...10%)	≤ 90 ms															
Measuring accuracy	≤ 0.1 % of full scale															
Reference temperature	23 °C															
Temperature drift	≤ 0.005 % / K															
<b>Galvanic separation</b>																
Test voltage	4.0 kV															
<b>Ex approval acc. to conformity certificate</b>	TÜV 03 ATEX 2311															
Application area	II (1) G, II (1) D															
Protection type	[Ex ia Ga] IIC; [Ex ia Da] IIIC															
Max. output voltage $U_o$	≤ 15.9 V															
Max. output current $I_o$	≤ 60 mA															
Max. output power $P_o$	≤ 470 mW															
Rated voltage	250 V															
Characteristic	Trapezoidal															
Internal inductance/capacitance L/C <sub>i</sub>	$L_i$ =negligibly small; $C_i$ =5nF															
External inductance/capacitance L <sub>e</sub> /C <sub>e</sub>	<table border="1"> <thead> <tr> <th>Ex ic</th> <th colspan="2">IIC</th> <th colspan="2">IIB</th> </tr> </thead> <tbody> <tr> <td>Lo [mH]</td> <td>5</td> <td>0,5</td> <td>10</td> <td>0,5</td> </tr> <tr> <td>Co [nF]</td> <td>135</td> <td>330</td> <td>860</td> <td>2200</td> </tr> </tbody> </table>	Ex ic	IIC		IIB		Lo [mH]	5	0,5	10	0,5	Co [nF]	135	330	860	2200
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Lo [mH]	5	0,5	10	0,5												
Co [nF]	135	330	860	2200												
Ex approval acc. to conformity certificate	TÜV 06 ATEX 553057 X															
Application area	II 3 G															
Protection class for belonging equipment	Ex nA [ic Gc] IIC T4 Gc															
Max. output voltage $U_o$	≤ 15.9 V															
Max. output current $I_o$	≤ 60 mA															
Max. output power $P_o$	≤ 470 mW															
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Co [nF]	290	640	1700	3900												
Ex approval acc. to conformity certificate	IS-1.105															
<b>Approval</b>	SIL 2															
MTTF	150 years acc. to SN 29500 (Ed. 99) 40 °C															
<b>Indication</b>																
Operational readiness	green															
<b>Protection class</b>	IP20															
Ambient temperature	-25...+70 °C															
Storage temperature	-40...+80 °C															
Dimensions	110x 18x 110 mm															
Weight	132 g															
Mounting instruction	For mounting on DIN rail or mounting panel															
Housing material	Polycarbonate/ABS															
Electrical connection	4 x 3-pole removable terminal blocks with test socket, reverse polarity protected, screw connection															
Terminal cross-section	1 x 2.5 mm <sup>2</sup> / 2 x 1.5 mm <sup>2</sup>															
Tightening torque	0.5 Nm															

**Accessories**

Type code	Ident no.	Description	Dimension drawing
IM-CC-3X2BU/2BK	6900475	Cage clamp terminals for IM modules (Ex devices; width 18 mm): 2 blue/2 black, 3-pin, included in delivery.	