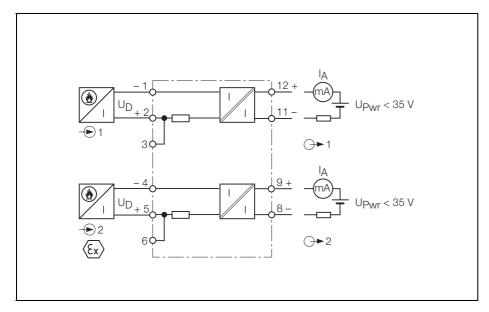
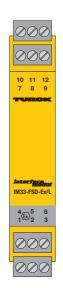


## isolating measuring transducer for fire and smoke detectors 1-channel IM33-FSD-EX/L







The 2-channel isolating transducer for fire and smoke detectors IM33-FSD-EX/L is designed for connection of conventional fire and smoke alarm indicators.

The indicators are supplied with energy and actuation of the indicator results in an according current signal which is transferred to the safe area. Several indicators can be connected to each circuit.

The isolating transducer is loop-powered and has to be connected directly to power-supplying input circuits of processor units.

Thereby unconditioned standard current signals of 0/4...20 mA are transferred. Please observe the voltage drop over the device.

Each input and output circuit is galvanically isolated. The inputs of the isolating transducer are reverse polarity protected.

A current-to-ground error can be detected safely via an external current-to-ground detector

- Intrinsically safe input circuits EEx ia
- Application area according to ATEX
  : II (1) GD
- isolating transducers without auxiliary power
- power supply for fire and smoke detectors
- signal transmission: 0...40 mA
- galvanic isolation between input circuits and output circuits
- removable terminal blocks, with screwable 2mm test socket
- Galvanic isolation of input circuits, output circuits and supply voltage



## isolating measuring transducer for fire and smoke detectors 1-channel IM33-FSD-EX/L

IM33-FSD-EX/L

Туре

Degree of protection

Ambient temperature Housing length

Mounting instruction

Housing material

Housing width

Housing height

Weight

.,,,,	IIVIOO I OD EVE			
Ident-No.	7506433			
Nominal voltage	24 VDC			
Transmitter connection				
Supply voltage	17 VDC			
Current	022 mA			
Input resistance	300 Ω			
Current input				
Current input	0/420 mA			
Output circuits	040 mA			
Output current	2* 0/420 mA			
Load	≤ 500 Ω			
Rise time (10-90%)	10 ms			
Dropout time (9010%)	10 ms			
Linearity deviation	≤ 0.1 % of full scale			
Drift	< 0.1 % /annually			
Effect of supply voltage	< 0.5 % of full scale			
Temperature drift	≤ 0.01 % / K			
Test voltage	2.5 kV			
Constant voltage supply	250 V			
Ex approval acc. to conformity certificate				
Ex approval acc. to conformity certificate	TÜV 02 ATEX 1862			
Application area	II (1) GD			
Protection type	[EEx ia] IIC			
Max.output voltage U <sub>o</sub>	≤ 27.3 V			
Max. output current I <sub>o</sub>	≤ 90 mA			
Max. output power Po	≤ 615 mV	≤ 615 mW		
Characteristic	Linear	Linear		
External inductance/capacitance L <sub>0</sub> /C <sub>0</sub>				
		EEx ia IIC	EEx ia IIB	
2. to 1. to 1. to 2. to	Lo [mH] Co [nF]	1 70	5 300	

IP20

110 mm

18 mm

110 mm

134 g

-25 ...+ 60 °C

polycarbonate/ABS

Mounting on DIN rail or mounting panel

## **Dimensions**

