

Terminal box LPG, Type 6907-106

- Connection of the Proline Promass F300 to the 3/2K interface dual Ex i (type 6932-105)
- Input for starting the measurement synchronously with the master counter during the calibration.



Description

The terminal box LPG allows the connection of the Proline Promass F300 to the Bartec System 3003 in explosive areas.

Application

The terminal box LPG is used to connect the Proline Promass F300 to the 3/2K interface plug-in card (type 6932-105).

There is also an input for starting a measurement synchronously with the master counter. This input must be used during the calibration measurement.

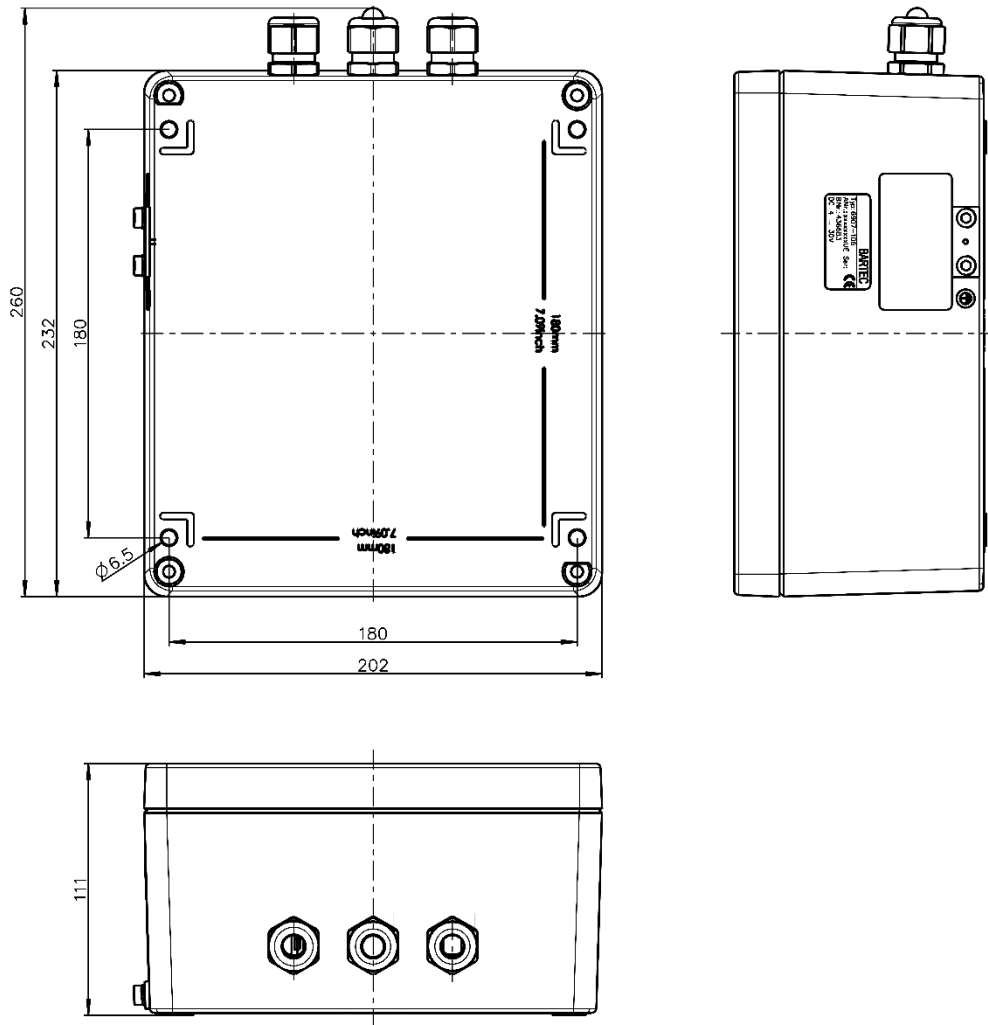
Function

The terminal box LPG ensures safe galvanic isolation between a non-intrinsically safe pulse generator output (Proline Promass F300) and the intrinsically safe pulse generator input of the 3/2K interface.

By switching on/off the pulse generator on the intrinsically safe side, the synchronous start with the master counter is realized.

Technical data	
Electrical data	
Input not intrinsically safe	
Input voltage	DC 20V to 28V (reverse polarity protected)
Input current	5.5 mA to 9.2 mA
Output Ex i	
Voltage	DC 4V up to max. 30V
Saturated voltage	0.9V
Current	Max. 50mA (only for connection to certified intrinsically safe circuits, maximum internal capacity C_i and maximum internal inductance L_i negligible)
Transmission data	
Switching frequency	Max. 5kHz ($U_A = 10V$)
Switching times measured at	$U_E = 20 V_{SS}$; $U_A = 10 V_{SS}$; $I_A = 50 mA$ Rise time approx. 15 μs Fall time approx. 13 μs Switch-on time approx. 18 μs Off time approx. 19 μs
Galvanic isolation transmitter/receiver	Max. 375 V (peak value)
Ambient conditions	
Operating temperature	-20 ... +50 °C
Storage temperature	-20 ... +50 °C
Protection class	IP66 according to DIN 40050
Climatic class	JWF according to DIN 40050
Mechanical data	
Dimensions	See drawing
Weight	approx. 3 kg
Housing	Aluminium
Terminals	Max. 2.5 mm ² finely stranded
Device group / category / type of protection	II 2 G Ex db eb [ia Gb] IIC T4 Gb
Certificates	PTB 00 ATEX 1063 X, TÜV 01 ATEX 1715
Standards	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-11
Ordering details	
Designation	Order number
Terminal box LPG, type 6907-106	436683

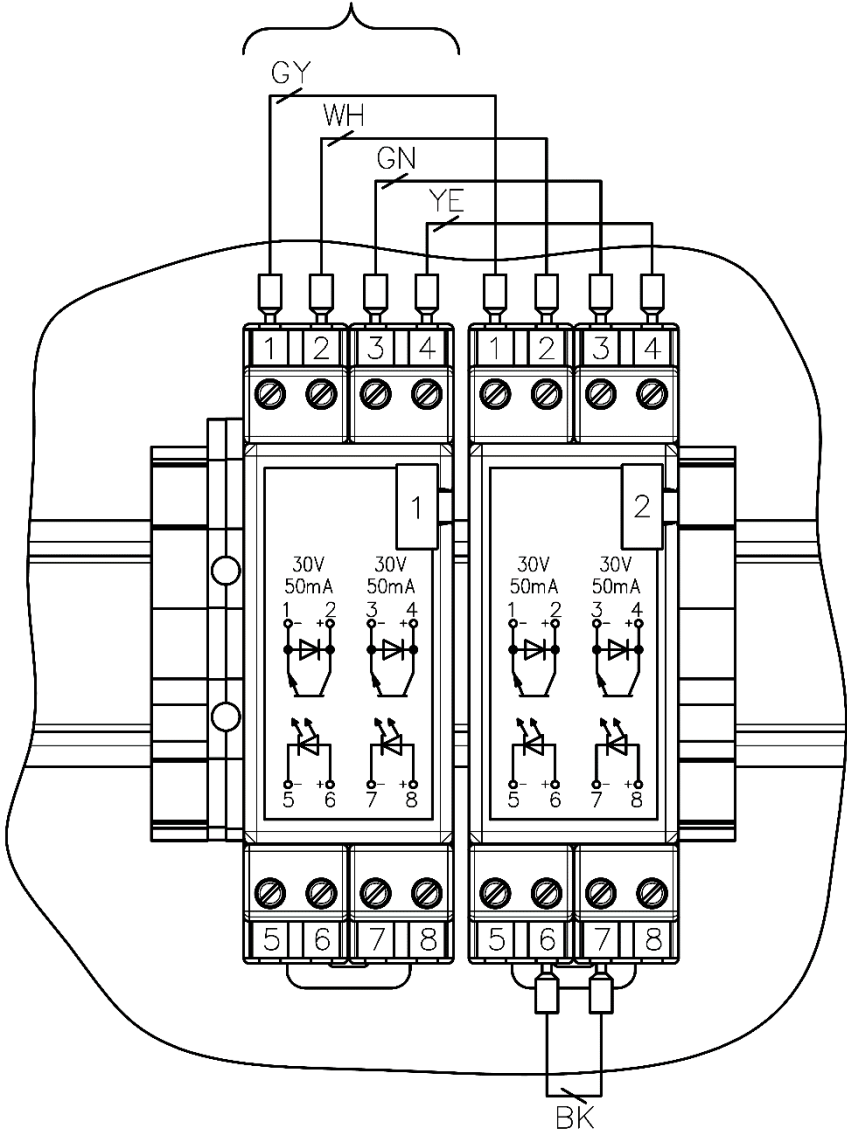
Dimensions and mounting holes



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Terminal assignments

Output terminal Ex i
Pulse generator cable to 3/2K-Interface Ex i



PE Input terminal Ex e Input terminal Ex e

Pulse generator cable to Proline Promass F300 Synchronous start with master counter.
0V-Pulse to 3/2K-Interface are approved.
24V-Pulse to 3/2K-Interface are blocked.

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Wiring

