

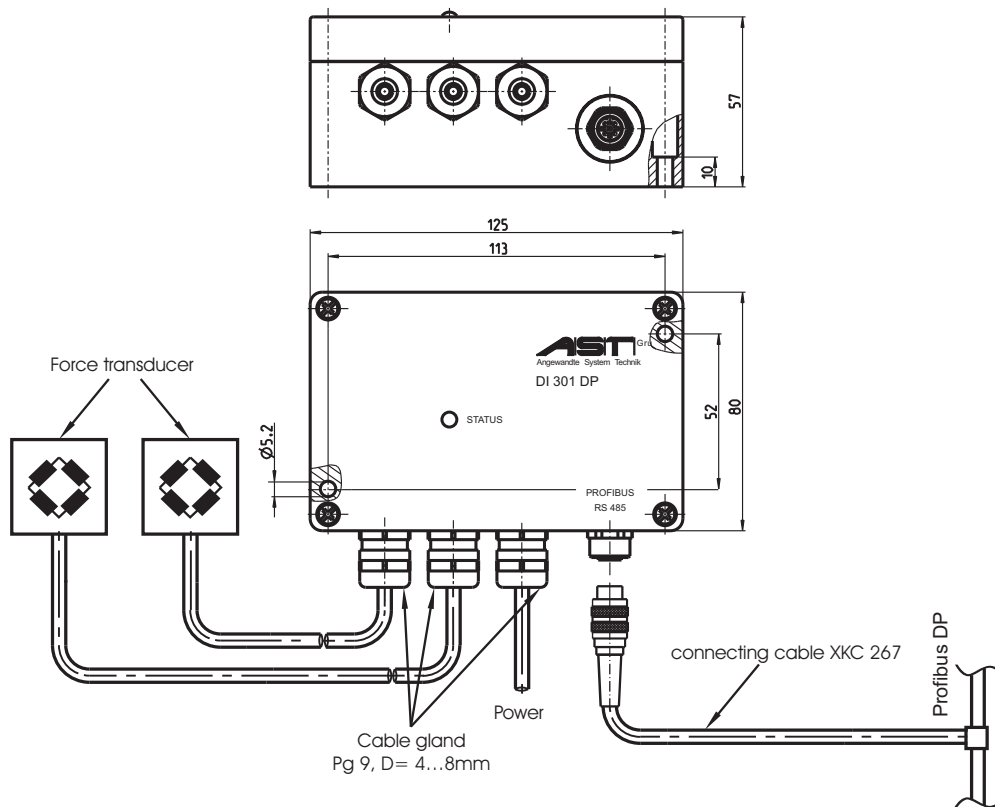
# Profibus-Interface DI 301DP

## Special features

- Field interface Profibus DP or RS485-BUS
- High accuracy by 24bit A/D-converter
- Measuring rate up to 400Hz
- Two measuring inputs, mV/V, mA, VDC
- One incremental encoder-input
- Industrial design, IP65
- Power supply 9 to 36 VDC
- 6-wire system
- Integrated weighing functionalities
- optional: power supply 100 ... 240 VAC



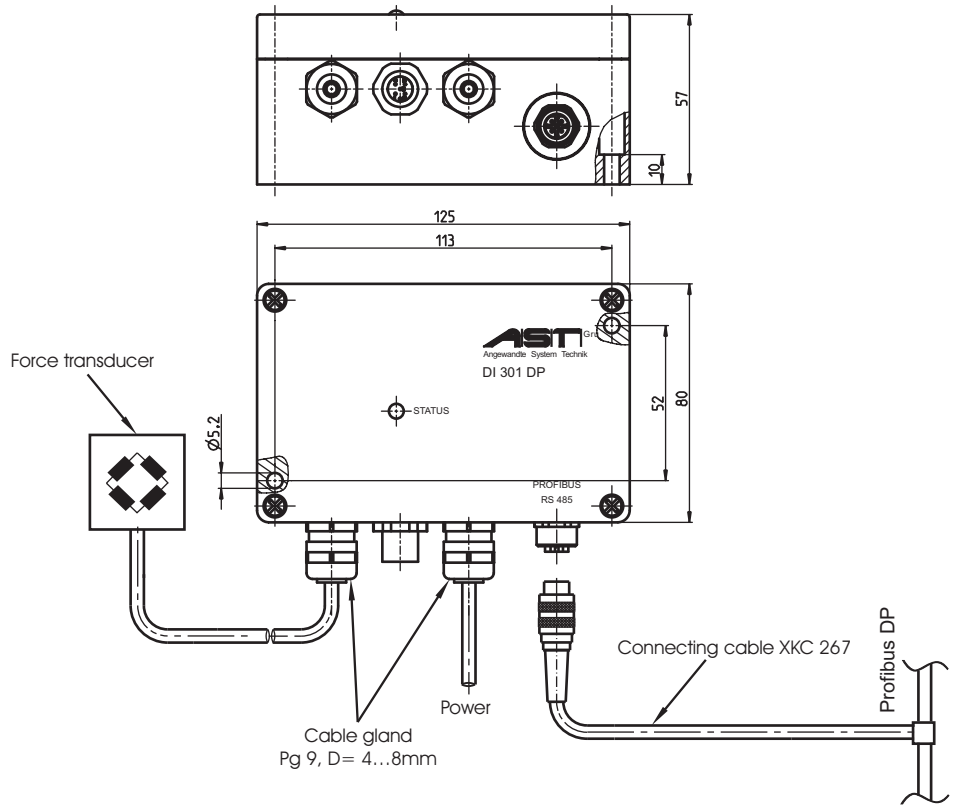
## Dimensions / Connections



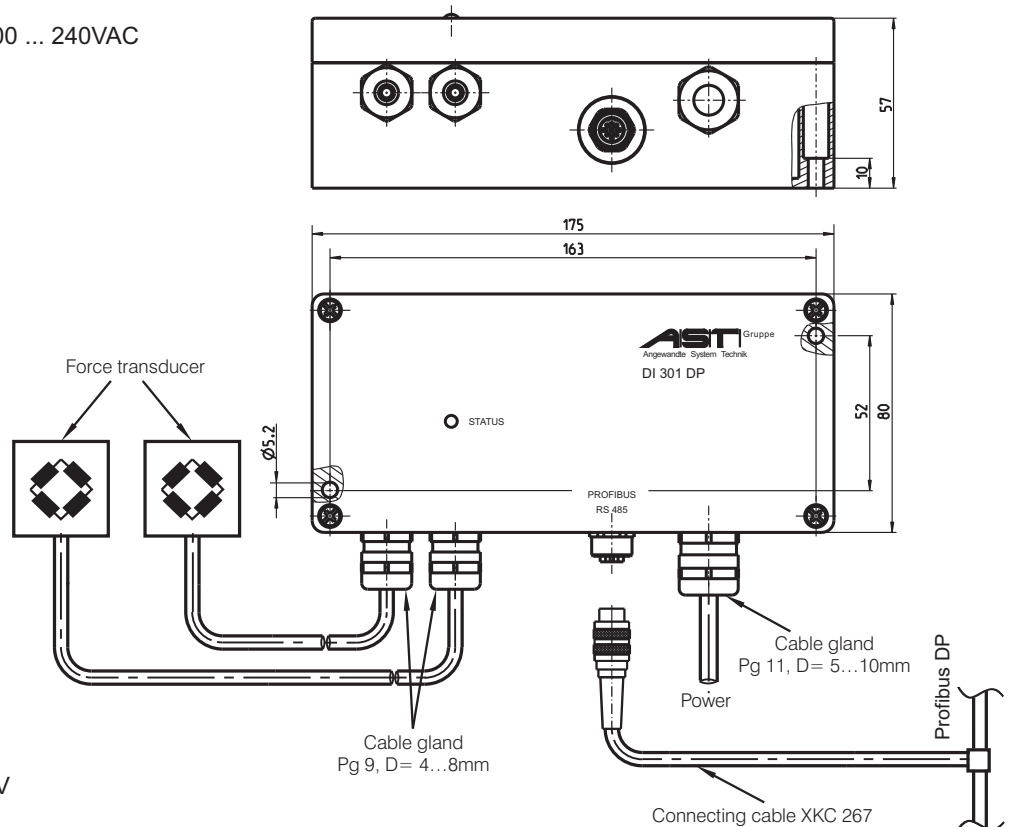
Version DI301 DP.2x

# Profibus-Interface DI 301DP

DI301 DP.11



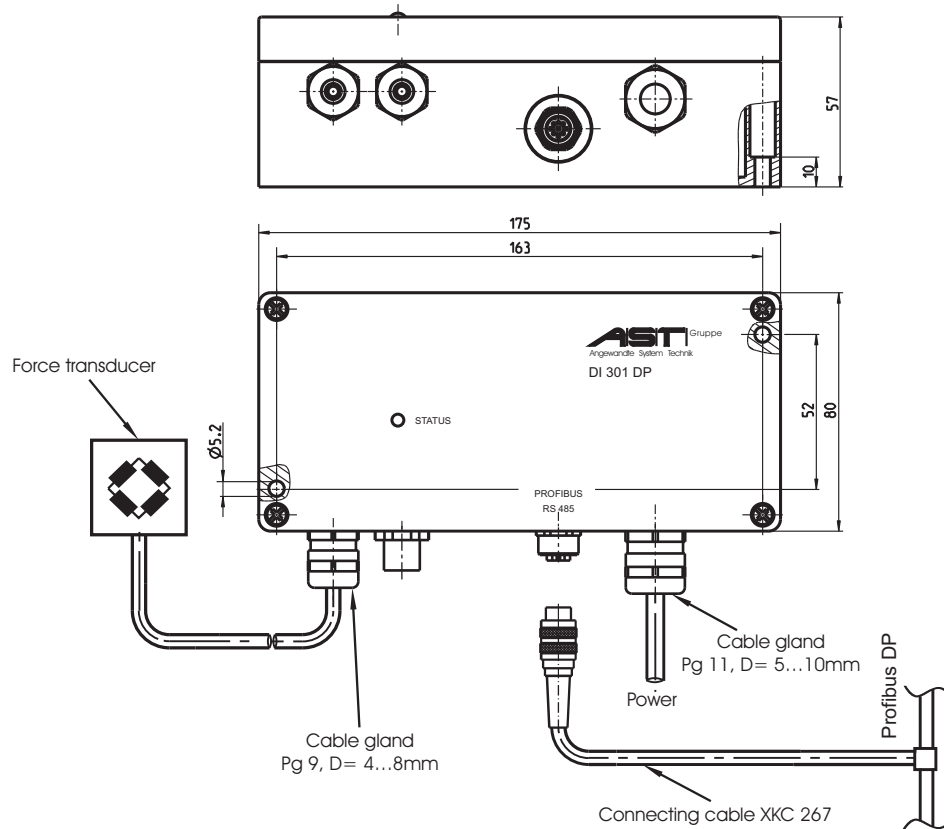
**Optional:** power supply 100 ... 240VAC



Versions DI301 DP.2x 230V

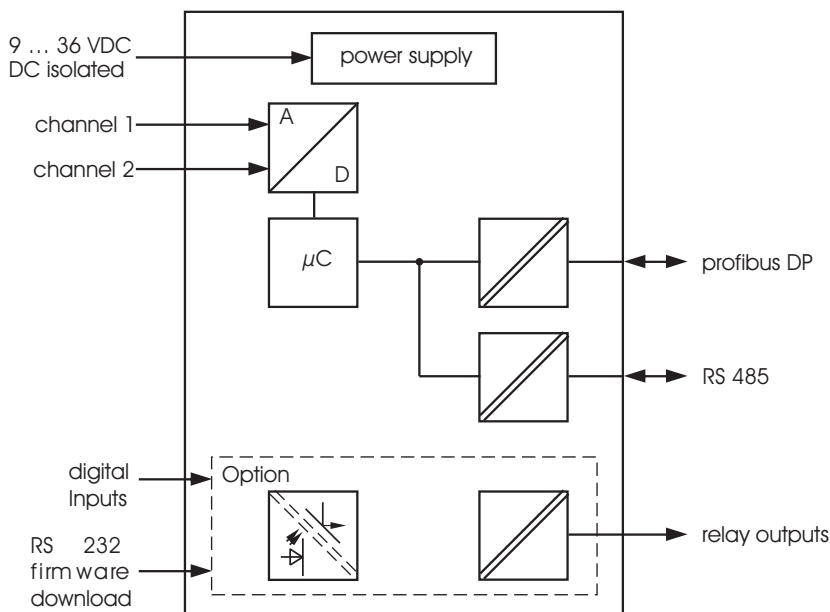
EVALUATION ELECTRONICS

# Profibus-Interface DI 301DP



DI301 DP.11 230V

## Wiring diagram



# Profibus-Interface DI 301DP

## Specifications

Type		DI301 DP.11	DI301 DP.21 DI301 DP.22 DI301 DP.23 DI301 DP.24 DI301 DP.25
<b>input strain gauge</b> connecting equipment		one-channel operations 6 conductors	two-channel operations channel 1: 6-conductor system channel 2: 4-conductor system
admissible bridge resistance Input signal range (+SI / -SI) supply voltage for the strain gauge bridge (+EX / -EX)	$\Omega$ mV/V VDC		87...2000 -3...3 $\pm 2.5$
<b>standard input signal</b> standard signal 4 optocoupler inputs 1 incremental encoder input			0 (4)... $\pm 20$ mA or 0... $\pm 10$ V
<b>output</b> - Profibus - asynchronous protocol RS 485 - 2 relays-outputs - RS232 (only variants with one channel)			Profibus DP V0 ... 12 Mbit/s, IEC 61158 bus-compatible, maximum: 16 subscribers, 2400 to 19200 Baud  max. 5m, for external display
<b>measuring characteristics</b> external measured-value output rate internal conversion rate internal resolution	Hz Hz Bit	up to 400	up to 15 per channel Max. 1600 24
<b>power supply</b> voltage range power consumption at 24V (w/o load transducer)	mA		9 ... 36 VDC (optional: 100 ... 240 VAC) approx. 60
<b>ambient conditions</b> operating temperature range storage temperature range	$^{\circ}\text{C}$ $^{\circ}\text{C}$		- 20...+ 60 - 25...+ 85
<b>error at S = 2 mV/V</b> error for strain gauge-bridge linearity noise-limited resolution of measured value at 2mV/V input sensitivity for 1 LSB zero drift	%S %S Bit nV nV/K		0,01 0,0015 14 to 19 (depending on the measuring rate) 5 20
<b>design details</b> weight dimensions (W x H x D)  protection class pursuant to EN 60529 internal terminal strips internal parameterization interface	kg mm		die-cast aluminum housing 0,4 125 x 80 x 57 (power supply 100 ... 240 VAC: 175x80x57) IP 65 0,14 ... 1mm <sup>2</sup> RS232

## Accessories

	Type code	Description
Software Documentation	XKS 265	Service program DI301 (PC-software for testing and setup) Documentation on CD (manual, specification for user Profibus, GSD- file)

## Options

	Type code	Description
Cable	XKC 267	Connecting cable Profibus (5pin cable connector B-coded and SUB-D plug 9-pol.) 5m
	XKC 269	Connecting cable RS232 for Setup DI301 DP