



## Specifications

Type		Type A	Type B
<b>Input strain gauge sensor</b>			
Number of strain gauge input channels		1	2/ 4
Connectin equipment		4-/ 6-wire system, configurable	4-wire system
Input signal range (+Si/-Si)	mV/V		± 7.0
Internal resistance of strain gauges bridge per channel	Ω	50 ... 1000	100 ... 1000
Power supply for strain gauge gridge (+EX/-EX)	VDC		± 2.5 (5.0)
Resolution ADU	Bit		24
Conversion rate ADU	Sps	up to 3200	up to 540
Cut-off frequency (-3dB)	Hz		approx. 2700
<b>Input temperature sensor PT1000</b>			
Number		1 per channel, maximum 4	none
Temperature measuring range	°C	-40 ... 125	-
<b>Input digital switching signal</b>			
Number of switching inputs			2 ... 6 <sup>1)</sup>
Type of switching inputs		potential free, optically isolated	
Input voltage switching inputs	VDC	low: ≤2.0 - high: ≥ 4.5	
Galvanic isolation	VDC	1000	
<b>Output standard signal analog</b>			
Current output / burden	mA	0/4...20, 0...24 / ≤ 500 Ω	
Voltage output / burden	VDC	-10/-5 ... 0 ... +5/+10 / ≥10 kΩ ≥ 10	
Datarate DAC max.	1/s	3200	540
<b>Accuracy class standard signal analog</b>			
2 mV/V Input signal = 100 % f. R.			
Linearity	%f. R.		0.1
Noise Current output, typical	μA <sub>RMS</sub>		≤ 25
Noise Voltage output, typical	mV <sub>RMS</sub>		≤ 5
Temperature coefficient amplification	%f. R./10K		0.1
Temperature coefficient zero point	%f. R./10K		0.1
<b>Switching Outputs</b>			
Switch contacts	VAC	potential free changeover 230 VAC	
Switching power	VA	1000	
Datarate	1/s	50	
Electrical lifetime	cycles	100.000	
Mechanical lifetime	cycles	> 10 <sup>6</sup>	
<b>interface digital CAN</b>			
Data transfer rate (adjustable)	kBits/ s	125 <sup>2)</sup> / 250/ 500	
Protocol		CANopen CiA 404	
Number of PDO's - adjustable		4	
Modul adress - adjustable		1 ... 126, 127 reserviert	
Status indicator		2 LEDs	
Filter - configurable		Moving average, Repeating average, Average over last n values	
<b>Accuracy class digital CAN</b>			
2 mV/V Input signal = 100 % f. R.			
Non-linearity	%f. R.		0.0025
Noise (depending on conversion rate)	%f. R.	<0.001 at 3200 Sps	<0.015 at 220 Sps
Temperature coefficient amplification	%f. R./10K		<0.01
Temperature coefficient zero point	%f. R./10K		<0.01
<b>Interface USB</b>			
Type		Micro USB	
<b>Power supply</b>			
Supply voltage	VDC	6	18 ... 24 ...36
Power consumption	W/channel		3
Galvanic isolation	VDC		1000
<b>Environmental Conditions</b>			
Working temperature range	°C	-20 ... +60	
Storage temperature range	°C	-30 ... +70	
Interference resistance		DIN EN 61000-6-2	
Interference emissions		DIN EN 55011-B	
<b>Construction</b>			
Dimensions (W x H x D)	mm	a <sup>1)</sup> x 114.5 x 99	
Environmental protection (EN 60529)		IP20	

1) - see type code

2) - factory settings

## Type code

Type code	Description	Type	Cannel	Input	Digital inputs	Analog outputs	Switching relays	a (mm)	Weight (kg)
LS1101-A100	Switching amplifier for DIN rail	A	1	1 x mV/V	2	1	2	45	0,21
LS1102-B200	Switching amplifier for DIN rail	B	2	2 x mV/V	5	2	6	45	0,3
LS1104-B400	Switching amplifier for DIN rail	B	4	4 x mV/V	6	4	8	67,5	0,43