

Data sheet SM 331 (331-1KF01)

## Technical data

Order no.	331-1KF01
Туре	SM 331
Our and information	
General information	
Note	-
Features	8x AI 13 Bit Voltage +/- 10 V, +/- 50 mV, +/- 500 mV, +/- 5 V, 0 V +10 V Strom +/- 20 mA, 0/420 mA Resistance thermometer For 40 pole front connector
SPEED-Bus	-
Current consumption/power loss	
Current consumption from backplane bus	255 mA
Power loss	1.3 W
Technical data analog inputs	
Number of inputs	8
Cable length, shielded	50 m
Rated load voltage	
Current consumption from load voltage L+ (without load)	
Voltage inputs	yes
Min. input resistance (voltage range)	100 kOhm
Input voltage ranges	-50 mV +50 mV -500 mV +500 mV -1 V +1 V -5 V +5 V 0 V +10 V -10 V +10 V +1 V +5 V
Operational limit of voltage ranges	+/-0.5% +/-0.6%
Operational limit of voltage ranges with SFU	-
Basic error limit voltage ranges	+/-0.3% +/-0.4%
Basic error limit voltage ranges with SFU	-
Destruction limit voltage	max. 30V
Current inputs	yes
Max. input resistance (current range)	100 Ohm
Input current ranges	-20 mA +20 mA 0 mA +20 mA +4 mA +20 mA
Operational limit of current ranges	+/-0.5%
Operational limit of current ranges with SFU	-
Grundfehlergrenze Strombereiche	+/-0.3%
Radical error limit current ranges with SFU	-
Destruction limit current inputs (electrical current)	max. 40mA
Destruction limit current inputs (voltage)	max. 15V
Resistance inputs	yes
Resistance ranges	0 600 Ohm 0 6000 Ohm
Operational limit of resistor ranges	+/-0.5%





Max. potential difference between inputs and Mana (Ucm)	-
Max. potential difference between inputs and Mintern (Uiso)	DC 75 V/ AC 50 V
Max. potential difference between Mintern and outputs	-
Insulation tested with	DC 500 V
Datasizes	
Input bytes	16
Output bytes	0
Parameter bytes	21
Diagnostic bytes	0
Housing	
Material	PPE
Mounting	Rail System 300
Mechanical data	
Dimensions (WxHxD)	40 mm x 125 mm x 120 mm
Net weight	260 g
Weight including accessories	-
Gross weight	-
Environmental conditions	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C
Certifications	
UL certification	yes
KC certification	yes