## Data sheet

## SM 231 (231-1BD70)

## Technical data

| Order no. | 231-1BD70 |
| :---: | :---: |
| Type | SM 231 |
| General information |  |
| Note | - |
| Features | ```4x AI 1 2 ~ B i t Voltage +/- 10 V Potential separated per channel``` |
| Current consumption/power loss |  |
| Current consumption from backplane bus | 280 mA |
| Power loss | 1.4 W |
| Technical data analog inputs |  |
| Number of inputs | 4 |
| Cable length, shielded | 200 m |
| Rated load voltage | - |
| Current consumption from load voltage L+ (without load) | - |
| Voltage inputs | yes |
| Min. input resistance (voltage range) | 83 kOhm |
| Input voltage ranges | -10 V ... +10 V |
| Operational limit of voltage ranges | - |
| Operational limit of voltage ranges with SFU | - |
| Basic error limit voltage ranges | - |
| Basic error limit voltage ranges with SFU | - |
| Destruction limit voltage | max. 30V |
| Current inputs | - |
| Max. input resistance (current range) | - |
| Input current ranges | - |
| Operational limit of current ranges | - |
| Operational limit of current ranges with SFU | - |
| Grundfehlergrenze Strombereiche | - |
| Radical error limit current ranges with SFU | - |
| Destruction limit current inputs (electrical current) | - |
| Destruction limit current inputs (voltage) | - |
| Resistance inputs | - |
| Resistance ranges | - |
| Operational limit of resistor ranges | - |
| Operational limit of resistor ranges with SFU | - |
| Basic error limit | - |
| Basic error limit with SFU | - |
| Destruction limit resistance inputs | - |
| Resistance thermometer inputs | - |
| Resistance thermometer ranges | - |
| Operational limit of resistance thermometer ranges | - |
| Operational limit of resistance thermometer ranges with SFU | - |



| Material | PPE / PA 6.6 |
| :--- | :--- |
| Mounting | Profile rail 35 mm |
| Mechanical data | $25.4 \mathrm{~mm} \times 76 \mathrm{~mm} \times 88 \mathrm{~mm}$ |
| Dimensions (WxHxD) | 90 g |
| Net weight | - |
| Weight including accessories | - |
| Gross weight |  |
| Environmental conditions | $0^{\circ} \mathrm{C}$ to $60^{\circ} \mathrm{C}$ |
| Operating temperature | $-25^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$ |
| Storage temperature |  |
| Certifications | yes |
| UL certification | - |
| KC certification |  |

