

Data sheet SM 231, ECO (231-1BD30)

Technical data

| Order no. | 231-1BD30 |
|---|---|
| Туре | SM 231, ECO |
| General information | |
| Note | |
| Features | 4x AI 12 Bit Voltage +/-10 V Parameterizable |
| Current consumption/power loss | |
| Current consumption from backplane bus | 120 mA |
| Power loss | 0.6 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) | 100 kOhm |
| Input voltage ranges | -10 V +10 V |
| Operational limit of voltage ranges | +/-0.2% |
| Operational limit of voltage ranges with SFU | - |
| Basic error limit voltage ranges | +/-0.1% |
| 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 | - |

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| agnostics information read-out nor | |
| agricolos incinatori road out | e |
| upply voltage display nor | e |
| roup error display red | SF LED |
| hannel error display nor | e |
| solation | |
| etween channels - | |
| etween channels of groups to - | |
| etween channels and backplane bus yes | |
| etween channels and power supply - | |
| ax. potential difference between circuits - | |
| ax. potential difference between inputs (Ucm) | 2 V |
| ax. potential difference between Mana and Mintern (Uiso) | |
| ax. potential difference between inputs and Mana (Ucm) | |
| ax. potential difference between inputs and Mintern (Uiso) | 75 V/ AC 50 V |
| ax. potential difference between Mintern and outputs | |
| sulation tested with DC | 500 V |
| atasizes | |
| put bytes 8 | |
| utput bytes 0 | |
| arameter bytes 12 | |
| iagnostic bytes 0 | |
| ousing | |



| Material | PPE / PA 6.6 |
|------------------------------|-------------------------|
| Mounting | Profile rail 35 mm |
| Mechanical data | |
| Dimensions (WxHxD) | 25.4 mm x 76 mm x 88 mm |
| Net weight | 90 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 | - |