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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

# Inline function terminal - IB IL TEMP 4/8 RTD-PAC/CN - 2692487

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Inline Modular analog input terminal, 8 inputs, RTD (resistance temperature detector), 3-wire connection method, complete with numbered I/O connectors

## Product Features

- Pt, Ni, Cu, KTY sensor types according to DIN and SAMA
- Measured value acquisition with 16-bit resolution
- Channel scout for optical channel identification
- Connection of sensors in 2, 3, and 4-wire technology

## Key commercial data

| | |
|---|---|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 256.9 GRM |
| Custom tariff number | 85389091 |
| Country of origin | Germany |

## Technical data

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |
| Permissible humidity (operation) | 10 % ... 95 % (according to DIN EN 61131-2) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (according to DIN EN 61131-2) |
| Air pressure (operation) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Air pressure (storage/transport) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Degree of protection | IP20 |

### General

| | |
|---|---|
| Weight | 190 g |
| Mounting type | DIN rail |

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## Technical data

### General

| | |
|---|---|
| Operating mode | Process data mode with 5 words/1 word PCP |
| Protection class | III, IEC 61140, EN 61140, VDE 0140-1 |
| Test section | 7.5 V supply (bus logic)/±15.5 V, ±5 V analog supply (analog I/O) 500 V AC 50 Hz 1 min |
| | 7.5 V supply (bus logics) / functional earth ground 500 V AC 50 Hz 1 min |
| | ±15.5 V, ±5 V analog supply (analog I/O)/functional earth ground 500 V AC 50 Hz 1 min |

### Interfaces

| | |
|---|---|
| Fieldbus system | Lokalbus |
| Designation | Inline local bus |
| Connection method | Inline data jumper |
| Transmission speed | 500 kBit/s |
| Transmission physics | Copper |

### Inline potentials

| | |
|---|---|
| Communications power $U_L$ | 7.5 V DC (via voltage jumper) |
| Current consumption from $U_L$ | typ. 75 mA |
| I/O supply voltage $U_{ANA}$ | 24 V DC |
| Current consumption from $U_{ANA}$ | typ. 28 mA |
| Power consumption | typ. 1.24 W |

### Analog inputs

| | |
|---|---|
| Number of inputs | 8 |
| Input name | Analog RTD inputs |
| Description of the input | Input for resistive temperature sensors |
| Connection method | Spring-cage connection |
| | 2, 3-conductor |
| Sensor types (RTD) that can be used | Pt, Ni, KTY, Cu sensors, linear resistors |
| Linear resistance measuring range | 0 Ω ... 400 Ω |
| | 0 Ω ... 20 kΩ |
| Measuring principle | Successive approximation |
| Measured value representation | 16 bits (15 bits + sign bit) |
| A/D conversion time | max. 10 µs |
| Process data update | 6 ms (Up to 230 ms possible depending on operating mode) |
| Data formats | IB IL, IB ST, S7 compatible |
| Precision | typ. 0.06 % |

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## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 4.0 | 27250303 |
| eCl@ss 4.1 | 27250303 |
| eCl@ss 5.0 | 27250303 |
| eCl@ss 5.1 | 27242601 |
| eCl@ss 6.0 | 27242601 |
| eCl@ss 7.0 | 27242601 |

### ETIM

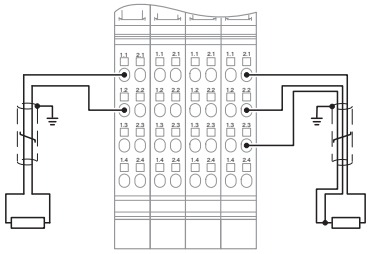
| | |
|---|---|
| ETIM 2.0 | EC001431 |
| ETIM 3.0 | EC001596 |
| ETIM 4.0 | EC001596 |
| ETIM 5.0 | EC001596 |

### UNSPSC

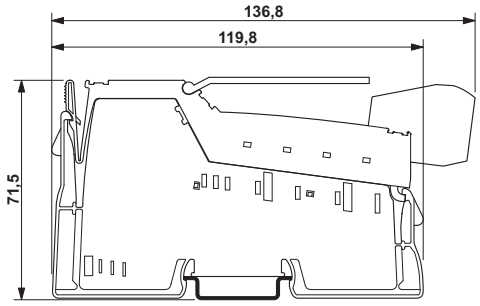
| | |
|---|---|
| UNSPSC 6.01 | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |
| UNSPSC 12.01 | 43201404 |
| UNSPSC 13.2 | 43201404 |

## Drawings

Connection diagram



Dimensioned drawing

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